

ADDITIONAL SITE ASSESSMENT REPORT
FORMER WEBER AIRCRAFT FACILITY
BURBANK, CALIFORNIA

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Prepared for

P. H. Burbank Holdings, Inc.

MAY 2007

Project No. 40641

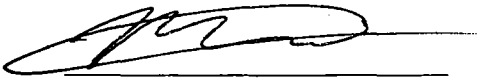


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May 3, 2007

Mr. Larry Moore, REA
Environmental Scientist III
Spills, Leaks, Investigation & Cleanup (SLIC) Unit II
Los Angeles Regional Water Quality Control Board
320 W. 4th Street, Suite 200
Los Angeles, CA 90013

Subject: Additional Site Assessment Report
Former Weber Aircraft Facility
Burbank, CA
SLIC ID No. 2040110; File No. 104.1132

Dear Mr. Moore:

As directed by the Regional Water Quality Control Board in previous correspondence, P.H. Burbank Holdings Inc. is pleased to submit this report covering the additional site assessment recently conducted at the former Weber Aircraft facility, located at 2820 N. Ontario Street, Burbank, California.

We look forward to meeting with you as a follow up to discuss the findings and conclusions of this report, and to plan out future site activities. If you have any questions regarding this report, please do not hesitate to contact me, or Mr. Gary Messerotes with Burns & McDonnell.

Sincerely,

A handwritten signature in black ink that reads "David Guier".

David Guier
Retained Liabilities & Remediation Program Manager

Ms. Rachel Loftin, Environmental Protection Agency
Mr. Alex Lapostol, CH2MHill
Mr. Brad Howard, Howard LLC
Mr. Gary Messerotes, BMcD
Ms. Diana Marquez, BMcD

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1.0 INTRODUCTION

Burns & McDonnell Engineering Company, Inc. (Burns & McDonnell) was retained by P.H. Burbank Holdings, Inc., to conduct an additional assessment of soil, soil vapor, and groundwater at the former Weber Aircraft facility in Burbank, California (Site) (Figure 1) (SLIC ID No. 2040110; File No.104.1132). The scope of the investigation activities was developed through meetings, telephone conversations, email correspondence, and finalized in a letter from the Regional Water Quality Control Board (Regional Board) dated October 2, 2006 (Appendix A). This report presents the methodologies, procedures, and results from the additional investigation at the Site.

1.1 Scope and Purpose

The Regional Board requested an additional investigation to assess the vertical and lateral extent of heavy metals, volatile organic compounds (VOCs), and emerging chemicals at the former Weber Aircraft (Weber) facility. The scope of work included drilling and soil sampling of fifteen (15) soil borings and decommissioning of one existing groundwater monitoring well. Of these 15 borings: nine (9) borings were completed as multi-level soil vapor probes (SVPs); three (3) borings were completed as dual groundwater and multi-level SVPs (dual wells); and the remaining three (3) borings were grouted up after sample collection. The scope of these activities is consistent with details discussed with the Regional Board on July 28, 2006 and the sampling matrix table that the Regional Board provided to Burns & McDonnell on August 11, 2006 (Table 1). The locations of the soil borings, SVPs and the three dual wells are shown on Figure 2.

2.0 BACKGROUND

The former Weber facility was part of an industrialized complex located to the northeast of the Hollywood-Burbank Airport. Weber initially leased the facility from Lockheed, and at some later time, perhaps in the early 1960's, purchased the facility from Lockheed. Prior to Lockheed's ownership, the facility was owned by the Ginsburg Brothers, who operated a distillery at the Site location.

Weber manufactured aircraft parts and galley assemblies at the Site from the early 1950's until termination of facility operations in 1989. Manufacturing operations conducted by Weber

included plating, machining, painting, metal degreasing, and panel assembly work. The facility was demolished during the period from August through November 1992.

Several phases of subsurface investigations have been conducted at the Site since 1988. The investigations consisted of soil gas surveys, soil drilling and sampling, and groundwater monitoring. At least nine soil investigations have been performed between 1988 and 1997, with a focus on investigating areas within the former facility where regulated compounds were suspected of being used, around the location of chemical storage areas, and other areas of environmental interest. From 1988 through 1992, eleven Impacted Soil Areas (ISA) were identified and have been designated as:

ISA-1	Building 207 North Dock
ISA-2	Building 230
ISA-3	Building W-9
ISA-4	Building 218
ISA-5	V-3 Area
ISA-6	Sump C-10 Area
ISA-7	Clarifier C-17 Area
ISA-8	South End of Buildings 207 and 208
ISA-9	Degreaser Area
ISA-10	South End of Building W-6
ISA-11	W-7 Area

Details of the investigations in and around the individual ISAs were presented in the *"Drilling at Impacted Soil Areas, Former Weber Aircraft Facility, Burbank, California"* submitted by Woodward-Clyde, August 1993.

Below is a brief historical summary of the Site investigative and remedial action timeline:

1988 through 1990

Subsurface investigations conducted; ISAs identified; Underground Storage Tanks abandoned.

1991

Groundwater monitoring wells installed and monitoring initiated.

1992

Facility demolition complete; additional ISAs identified on Parcel 1.

1993

Additional shallow soil impact investigations completed; metals and VOC impacted soils at ISA-1, ISA-2, ISA-4, ISA-6, ISA-8, and ISA-11 excavated and removed from Site.

1994

Soil vapor extraction (SVE) system installed and startup test completed.

1996

Pre-SVE system operation soil vapor monitoring completed; metals impacted soil at ISA-7 excavated and removed; SVE system began operation through 1997.

1997

SVE system ceased operation; rebound testing conducted on SVE system.

1998

Site purchased by Howard, LLC for redevelopment.

2000

Howard, LLC begins Site development by constructing two buildings.

2006/2007

Howard, LLC constructs two additional buildings.

Table 2 presents information gathered from previous reports indicating the building uses, reported chemicals and materials used, a brief summary of previous investigation results, and a brief summary of remedial activity that has occurred at the Site. The eleven ISAs are outlined on Figure 2.

3.0 INVESTIGATION ACTIVITIES

3.1 PERMITTING AND HEALTH AND SAFETY

Prior to initiation of drilling activities, Burns & McDonnell obtained drilling and well decommissioning permits from the Los Angeles County, Environmental Health Department (Appendix A).

The Site-specific health and safety plan (SHSP) was updated for this scope of work. The revised SHSP includes information on the project organization, hazard communication, air monitoring and personal protective equipment, health surveillance program, site security and control, decontamination procedures, standard operating procedures, contingency plan, and employee training. The revised SHSP was prepared in accordance with Occupational Health and Safety Administration (OSHA) guidelines.

3.2 UTILITY CLEARANCE

Prior to drilling, Burns & McDonnell notified Underground Service Alert and hired a subcontractor to perform clearance of the proposed drilling locations for subsurface utilities and obstructions. Utility clearance activities, including the ticket number, utilities notified, and the names of all persons granting utility clearance were recorded and placed in the field log book. Drilling activities were not conducted within 5 feet of any marked underground utilities. Drilling activities remained a minimum distance of 20 feet from overhead utilities. Due to the presence of underground or overhead utilities, it was necessary to offset several of the proposed monitoring well locations. Approval for the revised locations was granted by Mr. Alex Lapostol during his visit at the beginning of Site investigation activities. Final surveyed locations are shown on Figure 2.

3.3 DRILLING

A rotosonic drilling rig was used to advance each boring. All drilling and well installation activities were performed by Prosonic Corporation, a C-57 licensed California drilling firm, under the supervision of a California Professional Geologist.

Fifteen soil borings were drilled to further define the potential contaminants of interest impacts at the Site through the collection and analyses of soil samples, soil vapor samples, and groundwater samples. Soil borings were drilled in the vicinity of the former soil vapor extraction wells and in select areas of former ISAs. The individual boring/well designation numbers are identified in Table 1 and on Figure 2.

All fifteen borings were drilled to a minimum depth of 200 feet below ground surface (bgs); nine borings (BM-1, BM-2, BM-3, BM-5, BM-8, BM-9, BM-10, BM-11 and BM-16) were completed as multi-level SVPs; three borings (BM-4A, BM-6, and BM-7) were completed as dual wells; the remaining three borings (BM-12, BM-14 and BM-15) were backfilled after drilling and sample collection. Each boring completed as a multi-level SVP, was redesignated from the BM prefix to SVP (for example, BM-1 became SVP-1), with the multi-level vapor probes in each boring being differentiated by depth of screened interval (i.e., SVP-1-50, SVP-1-100, etc.), where appropriate. Borings completed as dual wells were renamed with SVP and MW prefixes and the corresponding boring designated number (for example BM-6 became SVP-6/MW-6), with the multi-level SVPs being differentiated as above.

The three borings (BM-6, BM-7, and MW-4A) completed as dual wells were drilled to approximately 270 feet bgs, approximately 40 feet below the top of groundwater. The dual well completions include soil vapor probes constructed within the same boring as the corresponding groundwater well casings. The dual groundwater wells and soil vapor monitoring probes were renamed as MW-6/SVP-6, MW-7/SVP-7 and MW-4A/SVP-4A. Lithologic boring logs are presented in Appendix B.

Following sample collection, each of the borings not completed as a dual well or an SVP were abandoned by back filling with cement grout. The grout was placed using a tremie pipe through the outer drill casing from the bottom of the borehole to within 6 inches of the ground surface. After the grout was allowed to set for 24 hours, the remaining portion of the open hole was plugged with soil, asphalt, or concrete, to match the surrounding material at the ground surface.

3.4 SOIL SAMPLING

Continuous core soil samples were collected from the core barrel of the roto sonic drill for field screening, visual observation, and lithologic description. The continuous core removed from the core barrel was transferred to plastic liners and field screened for VOCs using a photoionization detector (PID). To initiate the headspace testing procedure, soil samples were removed from the core barrel liners, placed into labeled plastic bags, and sealed. After sufficient time elapsed for contaminant volatilization inside the bags, they were punctured or opened and the probe tip of the PID was placed inside to measure potential VOCs in the headspace. Qualitative measurements of the headspace were obtained in the parts per million (ppm) range for total VOCs. The results of the headspace tests were recorded on the boring logs. Following field screening, soil samples were described on a drilling log following unified soil classification system (USCS) guidelines. Boring logs are included in Appendix B.

As a result of a July 28, 2006 meeting with the Regional Board and as directed by the Regional Board in the following correspondences: "*Requirement for Technical Report (Workplan) to Conduct a Soil and Groundwater Investigation*" dated October 2, 2006 and "*Workplan Approval for an Expanded Site Investigation*" dated October 19, 2006 (both of which are included in Appendix A), soil samples were collected for laboratory analysis at predetermined depths (Table 1). A total of one hundred and fifty three (153) soil samples were collected utilizing a decontaminated stainless steel California split spoon sampler that was advanced ahead of the core barrel. Soil samples were submitted for laboratory analysis to Test America Analytical Testing

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Corporation (Test America, formerly Del Mar Analytical Laboratory), a California-certified analytical laboratory, for analysis of parameters identified in Table 1. The samples were collected in brass or stainless steel sleeves, with the ends covered with Teflon sheets and sealed with airtight plastic caps. The sample tubes were then labeled with the project name, project number, boring number, sample depth, sampling date/time, and sampler's initials. Soil samples were placed into plastic bags and stored in an insulated ice chest containing cubed ice for transport to the analytical laboratory. Chain-of-custody documentation was completed and accompanied the soil samples to the analytical laboratory.

Continuous core soil samples collected below designated sample collection intervals were used for soil classification only and were not submitted for chemical analysis.

3.5 WELL COMPLETIONS

As presented in Section 3.3 above and in Table 1, twelve soil borings were completed as SVPs, three of which were completed as dual wells. The following subsections describe the well completions.

3.5.1 Dual Multi-Level Soil Vapor Probe and Groundwater Monitoring Well

Three borings were completed as dual wells (MW-4A/SVP-4A, MW-6/SVP-6, and MW-7/SVP-7), which included multiple soil vapor monitoring probes within the annular space of the boring of the groundwater well casing. These wells were constructed using a combination of the procedures outlined here and in Section 3.5.2. Construction details of the dual wells are presented in Appendix C.

The groundwater monitoring well portion of the dual wells was completed following these installation procedures:

- 2-inch diameter Schedule 80 polyvinyl chloride (PVC) riser and screen sections were used.
- A 60-ft screen with 0.010 inch slot was installed.
- Each groundwater monitoring well has a threaded end cap.
- The filter pack consists of 20/40 silica sand or equivalent and extends approximately 3 feet above the top of the screen.
- The seal consists of hydrated 3/8-inch bentonite chips and is a minimum of 5 ft thick.
- Cement-bentonite grout was placed from ten feet bgs to approximately 2 feet bgs providing the surface seal.

- Each groundwater monitoring well was completed with a traffic-rated well box, with a steel protective well cover flush mounted at the ground surface and a locking 2-inch, watertight J-plug.
- Each groundwater monitoring well was properly labeled with an aluminum badge placed in the cement of the protective well box.

3.5.2 Multi-level Soil Vapor Monitoring Probes

Nine of the twelve soil borings completed as SVPs (SVP-1, SVP-2, SVP-3, SVP-5, SVP-8, SVP-9, SVP-10, SVP-11, and SVP-16) did not include groundwater monitoring wells. The general plan for the borings completed as multi-level SVPs was to place discrete vapor sampling probes at approximately 50 foot intervals from 50 to 200 feet bgs. Some SVPs included probe tips at shallower depths (as shallow as 25 feet bgs). The specific SVP interval in each boring is presented in the matrix that makes up Table 1. Well construction details for the SVPs are presented in Appendix C.

The original workplan required drilling each boring until groundwater was reached, at a depth of approximately 220 feet bgs. Borings BM-1 and BM-14 were both drilled to groundwater, which was first encountered at a depth of approximately 235 feet bgs. After completion of these two borings, it was cleared with the Regional Board that the remainder of the boreholes that were not to be groundwater monitoring wells only needed to reach a maximum depth of 200 feet bgs. Borehole BM-1, which was drilled to 238 feet bgs, was backfilled with 3/8-inch diameter bentonite chips to the target depth (200 feet bgs) established for the lowest of the SVPs to be installed. The bentonite chips were hydrated in five foot lifts and capped with a 2-foot layer of concrete to support the probes above. A 2-foot layer of granular bentonite was placed above the concrete and a multi-level SVP was constructed above the bentonite backfill.

For the construction of the SVPs, approximately 2 feet of granular bentonite was placed above the concrete capped 3/8-inch diameter bentonite chips followed by approximately 2-3 feet of fine filter pack sand above the hydrated bentonite, and below the SVP tip. Each of the individual SVPs was constructed using 1/4-inch Teflon™ or stainless steel tubing fitted to a permeable AMS™ stainless steel SVP tip. A Teflon™ spacer was placed approximately six inches above the stainless steel tip to guide the tip into position and center it in the borehole. Fine filter pack sand was placed in the annular space between the probe tip and the borehole wall to approximately 2-3 feet above the permeable tip. A 2-foot lift of granular bentonite was placed above the sand interval and 3/8-inch bentonite chips were used to backfill the remaining borehole annular space to the base of the deepest sampling interval. Special care was taken to hydrate the

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entire column of bentonite, hydrating in five foot lifts. As each targeted sampling point was reached, an additional SVP was constructed using the same techniques outlined above. All well construction materials were placed slowly through the annulus of the drill casing to minimize bridging. Each SVP was finished at the surface with stainless steel tubing set in cement grout, capped with a Swagelok™ fitting and protected by a traffic rated flush mounted well box and labeled with an aluminum badge.

3.6 SOIL VAPOR SAMPLING

Burns & McDonnell retained H&P Mobile Geochemistry (H&P) to sample and analyze soil vapor from the forty five (45) individual SVPs installed at the site. The soil vapor sample collection was performed on January 18 and 19, 2007, in accordance with H&P's standard operating procedures (SOP) as summarized below and included in Appendix D.

3.6.1 *Purge Volume Test*

A Site-specific purge volume test was conducted at the beginning of the soil gas survey to determine an optimal purge volume for the SVPs across the Site. Three different purge volumes were sampled (nominally 1, 3, and 7 purge volumes) and analyzed immediately to determine the volume amount with the widest range of VOC compounds detected and highest concentrations. Results for each purge volume were reported to the Regional Board at the time of analysis. Based on the results of the purge volume test, the Regional Board verbally communicated that 5 purge volumes should be used at this Site.

3.6.2 *Sample Collection*

Soil vapor was withdrawn from the end of a length of inert Nylaflo® tubing that was connected to the stainless steel surface completion of the SVP sampling tip, using a 20 to 60 cubic centimeter (cc) syringe connected via an on-off valve. A sample of in-situ soil vapor was then withdrawn and immediately transferred to the mobile lab for analysis within minutes of collection. The use of small calibrated syringes allowed for careful monitoring of purge and sample volumes. This procedure ensured adequate sample flow was obtained without excessive pumping of air or introduction of surface air into the sample.

3.6.3 *Use of Tracer Compound to Ensure Probe Seal Integrity*

A tracer compound, 1,1-difluoroethane (1,1-DFA), was used to test for leaks around the probe barrel at the ground surface and in the sampling system. The tracer was placed around the base of the probe barrel and at the top of the probe barrel during sample collection. If the tracer was

detected per California Environmental Protection Agency (CA-EPA) advisory specifications, all fittings were checked and another sample was collected.

3.6.4 Sample Flow Rate

Sample collection was timed so that the flow rate did not exceed 200 milliliters per minute. This was accomplished by withdrawing the plunger on the 60 cc syringe at a constant rate for 20 seconds. The collector noted the collection time on a logsheet, and also recorded any resistance to sample flow that was felt on the syringe during collection.

3.6.5 Field Records

The field technician maintained a logsheet summarizing:

- Sample identification
- Probe location
- Date and time of sample collection
- Sampling depth
- Identity of samplers
- Weather conditions
- Sampling methods and devices
- Soil gas purge volumes
- Volume of soil gas extracted
- Observation of soil or subsurface characteristics (any condition that affects sample integrity)
- Apparent moisture content (dry, moist or saturated, etc.) of the sampling zone
- Chain-of-custody protocols and records used to track samples from sampling point to analysis.

The field logsheets are included as part of the Analytical Report in Appendix E.

3.7 GROUNDWATER MONITORING WELL DEVELOPMENT AND SAMPLING

Newly installed Groundwater Monitoring Wells, MW-6, MW-7, and MW-4A, were developed and sampled by Blaine Tech Services Inc., on February 20 and 21, 2007.

3.7.1 Groundwater Monitoring Well Development

Prior to well development, the water level and total depth of the monitoring well were measured and the volume of fluid in each of the monitoring wells was calculated. For development purposes, the well volume was considered to be the volume of water within the well casing, plus the volume of water within the filter pack (assuming 30-percent porosity for the filter pack material).

Monitoring Wells MW-6 and MW-7 were developed using a 2-inch submersible pump attached to new, disposable polyethylene tubing. The pump was set at the bottom of each well casing. Monitoring Well MW-4A was developed with a combination of a Waterra Power Pump and a peristaltic pump. A Myron Ultrameter L was employed to measure groundwater parameters (pH, electrical conductivity, turbidity, and temperature). Monitoring wells were continuously purged until a minimum of 10 casing volumes had been removed and field parameters had stabilized to within +/- 10 percent. Well development water was collected in the development vehicle storage tank and then transferred into 55-gallon drums, which were then labeled, sealed, and stored onsite (in the northeast corner of the Site, near well SVP-1) awaiting transportation and disposal at an appropriate facility.

3.7.2 Groundwater Sampling

All Site groundwater monitoring wells were purged with a submersible pump prior to sample collection. The intake of the pump was placed near the bottom of the saturated well screen. During the purging process, the groundwater level within the well was continually monitored with an electronic water level probe. The purge rate was adjusted with the pump controller so that drawdown within the well casing was limited to no more than 1 foot.

The purged water was monitored for the following field parameters:

- pH
- Conductivity
- Temperature

Purging continued until the monitored parameters had stabilized to within 10 percent.

Groundwater samples for laboratory analysis were collected at a rate less than 100 milliliters per minute after the parameters stabilized and the purging process was completed. After the monitoring well was purged, sampling was completed within 1 hour, or at the earliest time a sufficient water volume (80%) had reentered the well.

Each sample container was filled to the appropriate level and the lid was firmly tightened without dislodging the lid lining or over tightening the lids. Sample containers were wiped clean of water, soil, and grit. The appropriate adhesive, waterproof sample label was affixed to each sample container. The sample container was labeled with the sample number, date, time of collection, preservatives, and analyses to be performed. The information was written on the label using a permanent marker. Sample containers were then immediately placed in an ice-filled cooler. Samples were submitted under chain-of-custody documentation and transferred to a courier for transport to Test America Laboratory in Irvine, California. Groundwater analytical results, chain-of custody documentation, and the well development/well monitoring forms were reported in Burns & McDonnell's "*First Quarter 2007 Groundwater Monitoring Report, Former Weber Aircraft Facility, Burbank, California.*" dated March 22, 2007.

3.8 ANALYSES

3.8.1 Soil Sample Analyses

The soil samples collected for analyses were submitted to Test America. The specific soil samples collected were analyzed for the contaminants of interest presented in Table 1.

The following methodologies were utilized by the laboratory for the specified analysis:

- Title 22/CAM 17 Metals (EPA Method 6010/7471)
- Hexavalent Chromium (EPA Method 7199)
- Mercury (EPA Method 7470/7476)
- Total Cyanide (EPA Method 335)
- Perchlorate (EPA Method 314.0)
- 1,4-Dioxane (EPA Method 8270 SIM)
- Dioxins/Furans (Method DLM020.0)
- 1,2,3-Trichloropropane (EPA Method 8260)
- pH (EPA Method 150.1)

All samples were submitted to the laboratory following chain-of-custody procedures, and sample information was documented in the field log book. As directed by the Regional Board, the deeper (30 to 200 feet) soil samples collected were held for metals analyses, which would be determined based on the metals analytical results of the shallow soil samples within each borehole (see footnote on Table 1 for individual borings). Once analytical results were obtained, Burns & McDonnell met with the Regional Board and presented the preliminary results. Shortly thereafter, the Regional Board made a selection of the held samples to submit for metals analyses

and communicated that to Burns & McDonnell. Per the Regional Board's instructions, selected deeper soil samples that were originally held after being collected in the field, were analyzed on March 7 and 8, 2007, using the methods described above. Soil analytical data is summarized in Tables 3, 4, and 5, and the Certified Analytical Reports are included in Appendix E.

3.8.2 Soil Vapor Sample Analyses

As detailed in Section 3.6, soil vapor samples that were collected from the various SVPs were analyzed onsite by H&P Mobile Geochemistry, a California-certified analytical laboratory. The soil vapor samples were analyzed for VOCs by EPA Method 8260.

Soil vapor analytical results are summarized in Table 6, and the Certified Analytical Report is included in Appendix E.

3.8.3 Groundwater Sample Analyses

The new groundwater monitoring wells (MW-4A, MW-6, and MW-7) were incorporated into the Site's groundwater monitoring program. The wells were sampled on February 20 through 21, 2007, in accordance with the methods described in Section 3.7.2. All groundwater samples were submitted to Test America for the following list of analyses:

- VOCs (EPA Method 8260)
- 1,4-Dioxane (EPA Method 8270 SIM)
- Title 22/CAM 17 Metals (EPA Method 6010/7471)
- Hexavalent Chromium (EPA Method 7199)
- Anions (NO₂, NO₃, SO₄, Cl) (Method 300.0)
- Perchlorate (EPA Method 314.0)
- Dissolved Oxygen (Method 360.1)
- Sulfide (Method 376.2)
- 1,2,3-Trichloropropane (Method 504.1)
- N-Nitrosodimethylamine (NDMA) (EPA Method 1625M)
- Cations (EPA 6010)
- Dissolved Iron & Manganese (EPA Method 6010)
- Dioxins/Furans (Method DLM02.0)

The analytical results and the Certified Analytical Reports were reported in Burns & McDonnell's *"First Quarter 2007 Groundwater Monitoring Report, Former Weber Aircraft Facility, Burbank, California."* dated March 22, 2007. Groundwater analytical results are summarized in Tables 7 through 10, and the Certified Analytical Report was included in the above referenced report and not duplicated in this report.

3.9 WELL DECOMMISSIONING

Groundwater Monitoring Well SW-4 was decommissioned on January 6, 2007, due to the fact that it was located within one of the Site's main storm drains. The well was decommissioned by pressure grouting the entire length of the casing to within 5 feet of the surface. The casing was cut off below the ground surface and the remaining upper 5 feet was cemented to conform with the Site's existing storm drain system. A copy of the Los Angeles County well destruction permit is included in Appendix B.

3.10 SURVEYING

Burns & McDonnell retained a California Licensed Surveyor to survey the location and elevation of the new wells relative to mean sea level, accurate to within ± 0.01 -feet. Surveying was completed on March 2, 2007. Survey data complied with the California State Water Resources Control Board requirements for the GEOTRACKER database and is presented in Appendix G.

3.11 INVESTIGATION DERIVED WASTE (IDW) DISPOSAL

Soil cuttings were consolidated in 20 cubic yard soil bins and stored on Site pending analytical results. Decontamination fluid, and groundwater displaced during the investigation was containerized in Department of Transportation (DOT) approved 55-gallon drums. Samples were collected to generate waste profiles for the materials to be disposed of. The drums were labeled and stored on-Site in a secure area pending results of analyses. Following completion of the waste profiling, the soil bins and waste water drums were removed from the site and transported to an appropriate waste facility for disposal.

All other IDW generated, including all personnel protective equipment, rope, bailers, paper towels, empty water bottles, etc., was placed in trash bags. The trash bags were then placed in an onsite dumpster with general construction debris.

4.0 INVESTIGATION RESULTS

4.1 SITE GEOLOGY

The Site is located in the San Fernando groundwater basin. The basin is bounded on the east and north by the San Rafael Hills and Verdugo Mountains, on the north by the San Gabriel Mountains, and on the south by the Santa Monica Mountains. A concrete-lined channel, which originates in the Hanson-La Tuna Canyon area, a tributary to the Los Angeles River, is located

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approximately 1,100 feet to the southwest. Sediments of recent and older alluvium underlie the Site, and are composed primarily of sands and gravels derived from igneous and metamorphic rocks eroded from the San Gabriel and Verdugo Mountains.

Based on the drilling and geophysical logs of previous investigations, the Site appears to be underlain by medium dense to dense sand, gravelly sand, and gravels to depths of at least 270 feet bgs. A hard gravel layer is present at a depth of approximately 75 feet bgs, and may represent a zone coincident with the highest groundwater elevation recorded in the area, measured at 72 feet bgs in 1944. Other gravel/cobble horizons occur at approximately 140 feet, 160 feet, and 245 to 250 feet bgs. These bedded gravels appear to be laterally discontinuous, but can sometimes be correlated between adjacent borings (Woodward-Clyde Consultants, 1993, *Drilling at Impacted Soil Areas, Former Weber Aircraft Facility, Burbank, California, Volume I: August, Final Report*).

The gravelly sands and cobble horizons typically form interbedded sequences, becoming coarser with increasing depth, and are occasionally separated by laterally extensive or discontinuous rare clays, sandy-silts, silty-sands and silts. The depositional environment for sediments at the Site is a coalescing alluvial fan environment. These observations are consistent with published geologic mapping by the USGS.

Detailed boring logs were completed from visual observation of continuous core from the 15 borings drilled across the Site. Subsurface geology of the Site generally conforms to historical descriptions, being dominated by coarse sand and gravel with intermittent seams of finer silts. Due to the discontinuity of the individual lithologic units, it was not possible to correlate any of the units across the Site. The cross sections presented as Figures 3 through 8, present a simplified lithology for purposes of displaying selected analytical results. The simplified lithology was broken into three units: gravelly soil; sandy soil; and silty soil.

4.2 SOIL ANALYTICAL RESULTS

Metals were detected in soil samples collected across the entire Site. At the direction of the Regional Board, metals results were compared to the EPA's dilution attenuation factor (DAF=20), with most of the results below the screening values. The only metals analytical results detected above the DAF=20 values at this Site were for total chromium (Cr), found in Boring BM-8/SVP-8 at 10, 15, and 20 feet bgs (120 milligrams per kilogram [mg/kg], 38 mg/kg,

and 250 mg/kg, respectively), with the DAF=20 value for total Cr being 38 mg/kg. The soil sample collected from BM-10/SVP-10 at 100 feet bgs had a total Cr concentration of 36 mg/kg, approaching the DAF=20 value of 38 mg/kg. Metals analytical results in soil are summarized in Table 3 and presented in cross sectional format on Figures 3, 4, and 5. Complete analytical reports and chain-of-custody documentation are included in Appendix E.

Emerging chemicals analyzed in soil included: Perchlorate; 1,4-dioxane; 1,2,3-trichloropropane (1,2,3-TCP); and dioxins/furans. Perchlorate and 1,4-dioxane were not detected at or above their respective method reporting limits in any samples analyzed. 1,2,3-TCP was detected in six soil samples collected in four borings, ranging up to a concentration of 0.18 micrograms per kilogram ($\mu\text{g/kg}$), far below the USEPA Region IX Residential Preliminary Remediation Goal (PRG) value of 34 $\mu\text{g/kg}$. Emerging chemicals in soil analytical results are summarized in Table 4 and complete analytical reports and chain-of-custody documentation are included in Appendix E.

Dioxins/Furans were analyzed in samples collected from 3 borings (BM-14, BM-16, and MW-4A). The octachlorodibenzo-p-dioxin (OCDD) congener was detected in four of the five samples collected from Boring BM-16. Toxicity Equivalence Factors (USEPA, 2003) were applied to the analytical results, and the resulting total 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) equivalent concentrations were below the residential California Human Health Screening Level (CHHSL) of 4.6 picograms per gram (pg/g).

4.3 SOIL VAPOR ANALYTICAL RESULTS

In general, VOCs detected in soil vapor samples increased with depth across the Site. The highest concentration of tetrachloroethene (PCE) was detected in the soil vapor sample from SVP-8-200 (200 feet bgs). The highest concentration of trichloroethene (TCE) was also detected in the soil vapor sample from SVP-8-200. The highest concentration of 1,1-dichloroethene (1,1-DCE) was detected in the soil vapor sample collected from SVP-10-200. Since CHHSL values are based on vapor intrusion and thus are not relevant to deep soil vapor samples, the soil vapor results from this investigation were not compared to any screening levels.

Soil vapor analytical results are summarized in Table 6 and depicted in cross sectional format on Figures 6, 7, and 8. Complete analytical reports and chain-of-custody documentation are included in Appendix E.

4.4 GROUNDWATER ANALYTICAL RESULTS

Groundwater monitoring in the First Quarter 2007 represents the fifth monitoring event since December 2004. Groundwater levels have risen by over 1 foot (1.16) across the Site since the last monitoring event. Groundwater flow is to the south with a gradient (0.006 ft/ft), which is consistent with previous reports. The sections below present the occurrence of contaminants of interest in groundwater as reported in Burns & McDonnell's "*First Quarter 2007 Groundwater Monitoring Report*," dated March 22, 2007. Figure 9 presents the groundwater elevation contour map, Figures 10 through 14 depict contaminant of interest isoconcentration contours for the analytes described below.

4.4.1 Metals in Groundwater

With the exception of total Cr, hexavalent chromium (Cr^{+6}), lead and vanadium, the remaining Title 22/CAM 17 metals did not exceed California maximum contaminant levels (MCLs) in the groundwater samples collected. Concentrations of total Cr increased in four of the groundwater wells since the last sampling event. Concentrations of total Cr in groundwater samples from Monitoring Wells SW-1, SW-3 and SW-5 were higher than what was measured in October 2006, but were within the range of concentrations detected over the past year. However, the total Cr concentration in the sample from Monitoring Well SW-2 was above any of the previously measured levels. For Cr^{+6} , only the sample from Well SW-3 exceeded the California MCL of 50 $\mu\text{g/L}$ during this sampling event. Trace concentrations of various metals were detected in the seven Site wells; however, other than the total Cr and Cr^{+6} results discussed above, only the concentrations for vanadium and lead in the sample from Monitoring Well SW-2 (upgradient at the property edge) exceeded their corresponding MCLs. Analytical results for metals in groundwater are presented in Table 7.

4.4.2 Emerging Chemicals in Groundwater

Evaluation of emerging chemicals determined that 1,4-dioxane was detected in samples from Monitoring Wells SW-1 (offsite and upgradient) and SW-3, with neither exceeding the California MCL of 6.1 $\mu\text{g/L}$. NDMA was detected for the first time in Monitoring Well SW-2 (upgradient at the property edge) during the July 2006 sampling event, but has not been detected in samples from that well since. NDMA was detected slightly above the reporting limit in the sample from Monitoring Well MW-7 during the First Quarter 2007 sampling event at a concentration of 0.0022 $\mu\text{g/L}$. Perchlorate was not detected at or above the method reporting limit of 4.0 $\mu\text{g/L}$, in any of the groundwater samples analyzed during this event.

Only the dioxins/furans OCDD congener was detected in the groundwater sample from Monitoring Well SW-5, resulting in a total 2,3,7,8-TCDD equivalent concentration of 0.147 picograms per liter (pg/L). However, the result for the calculated total 2,3,7,8-TCDD equivalent value was well below the MCL of 30 pg/L. Dioxins/furans were not detected in any of the samples collected from the remaining Site wells.

Analytical results for emerging chemicals in groundwater are presented in Tables 9 and 10.

4.4.3 Volatile Organic Compounds in Groundwater

VOC distribution and concentrations for the First Quarter 2007 sampling event are generally consistent with as the Fourth Quarter 2006 sampling event, with TCE concentrations in samples from Monitoring Wells SW-2 (upgradient at the property edge), SW-3, and SW-5, along with the newly installed Wells MW-4A, MW-6, and MW-7, exceeding the MCL of 5µg/L. The highest TCE concentration was detected in the groundwater sample from Monitoring Well MW-4A (near the eastern property boundary) with concentrations decreasing toward the north, west, and southwest. This is consistent with the fact that nearby Monitoring Well SW-4 (decommissioned in January 2007) historically had the highest TCE concentrations.

PCE distribution is primarily in the southern portion of the Site, with concentrations decreasing to the east and west of Monitoring Well SW-3. PCE concentrations exceeded the MCLs in Monitoring Wells SW-3, MW-4A, SW-5 and MW-7, and are below MCLs in Wells SW-1 (offsite and upgradient), SW-2 (upgradient at the property edge) and MW-6. PCE concentrations in Well MW-4A were two orders of magnitude less than the sample collected from nearby Well SW-4 in the Fourth Quarter 2006.

Concentrations of 1,1-DCE were detected above the corresponding MCL (6µg/L) in Wells SW-3, MW-4A, SW-5 and MW-6 and were below the MCL in Wells SW-1 (offsite and upgradient), SW-2 (upgradient at the property edge) and MW-7. Currently, the groundwater sample with the highest 1,1-DCE concentration was in the sample from Monitoring Well MW-4A, at the eastern property boundary.

Concentrations of benzene, toluene, ethylbenzene and total xylenes were not detected during this sampling event.

Analytical results for VOCs in groundwater are presented in Table 8.
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5.0 SUMMARY AND CONCLUSIONS

At the direction of the Regional Board, Burns & McDonnell conducted an extensive additional Site investigation at the former Weber facility between November 2006 and February 2007. This investigation consisted of drilling soil borings, installing multi-level soil vapor probes and groundwater monitoring wells, and collecting and analyzing soil, soil vapor, and groundwater samples. The following subsections provide a summary of the results and associated conclusions for each chemical group.

5.1 METALS

Although analytical results for metals in soil indicated that low levels of metals were detected across the Site at depths as deep as 200 feet bgs, only total Cr exceeded the DAF=20 value of 38 mg/kg in BM-8/SVP-8 at depths of 10, 15, and 20 feet bgs.

In general, the soil borings that had the widest range of metals detected were in the areas of:

- ISA-5 (BM-11), which had former buildings (identified as W-3, W-4, and 223) that were reportedly used to fabricate seat covers, electrical assembly, metal working, stainless steel fabrication and final assembly of crew seats and airstairs.
- ISA-7 (BM-8/SVP-8, BM-9/SVP-9, and BM-12), which was in the area reportedly used for metal degreasing and plating.

Concentrations of total Cr exceeded MCLs in groundwater samples collected from Monitoring Wells SW-1, SW-2, SW-3, and SW-5. In each of these wells the concentration increased since the last sampling event; however, with the exception of the groundwater sample from Monitoring Well SW-2, the detected concentrations were within the range measured over the past year. For Cr^{+6} , only the groundwater sample from Well SW-3 exceeded the MCL of 50 $\mu\text{g/L}$ during this sampling event, although low levels of Cr^{+6} were also detected in samples from Monitoring Wells SW-1, SW-2, MW-4A, SW-5, and MW-6.

Based on the presence of elevated Cr concentrations in groundwater samples from Monitoring Wells SW-1 and SW-2, which are upgradient of the ISAs, it is likely that there is an off-site source contributing to the total Cr plume in groundwater. Moving downgradient, Cr concentrations decrease between Monitoring Wells SW-1 (off-Site and upgradient) and SW-2

(upgradient on-Site), increase again in Monitoring Well SW-3 (downgradient), and decrease again in Monitoring Well SW-5 (downgradient near the southern property boundary). Given the presence of total Cr at concentrations exceeding the DAF=20 screening level in soil samples from Boring BM-8, which is located between Monitoring Wells SW-2 and SW-3, it is likely that there is a contribution of total Cr in groundwater emanating from ISA-7.

5.2 EMERGING CHEMICALS AND DIOXINS/FURANS

Perchlorate was not detected in soil samples from the two borings within the Former Burn Test (BM-14) and Former Pyro Test (BM-16/SVP-16). Similarly, perchlorate was not detected in any groundwater samples collected during this sampling event.

Soil sampling from the three borings that were analyzed for dioxins/furans indicate that only one boring (BM-16/SVP-16, in the Former Pyro Test Area) had detections of low levels of one dioxin congener (OCDD); however, the results were well below the CHHSL value for total 2,3,7,8-TCDD equivalent of 4.6 pg/g. Similarly, OCDD was the only dioxin or furan congener detected in groundwater, but the calculated total 2,3,7,8-TCDD equivalent value was well below the MCL of 30 pg/L.

Soil sampling from the eleven borings that were analyzed for 1,4-dioxane, indicated that there were no detectable levels at or above the method reporting limit in any soil samples analyzed. In groundwater, 1,4-dioxane was detected at concentrations exceeding the MCL in Monitoring Well SW-5, and was also detected at concentrations below the MCL in Monitoring Wells SW-1 and SW-3. 1,4-Dioxane was used as a stabilizer in commercial chlorinated solvent mixtures, and thus may be associated with the chlorinated solvents previously used at the Site.

Soil sampling from the ten borings that were analyzed for 1,2,3-TCP indicate that six soil samples collected from four borings had detections ranging up to a concentration of 0.18 µg/kg, far below the PRG value of 34 µg/kg. 1,2,3-TCP was not detected in any of the groundwater samples collected during this sampling event.

5.3 VOCs

In general, VOC analytical results for soil vapor indicate that the concentrations of VOCs increase with depth across the Site. The highest readings for PCE and TCE were from SVP-8 at 200 feet bgs. SVP-8 is located at the eastern edge of ISA-7, in the immediate vicinity of the

former Clarifier C-17. Site historical information indicates that this was in the vicinity of an above ground PCE tank. In groundwater, the highest concentration of PCE was detected in the sample from Monitoring Well SW-3 (immediately downgradient of the former Clarifier C-17), with levels exceeding the MCL also detected in samples from Monitoring Wells MW-4A, SW-5, and MW-7. The highest concentration of TCE was detected in the sample from Monitoring Well MW-4A (located near the eastern Site boundary), with concentrations exceeding the MCL also detected in samples from Monitoring Wells SW-2 (upgradient on-Site well), SW-3, SW-5, MW-6, and MW-7.

The highest concentrations of PCE in both soil vapor and groundwater samples were generally found in the area of ISA-7. Given that the concentration of PCE (600 µg/L) in soil vapor from SVP-8 at 200 feet bgs is approximately double the concentration found in nearby samples may indicated the presence of a limited source of PCE in the deep vadose zone. The relative correlation of PCE concentration in groundwater with the remaining SVP data suggests contaminant flux between the dissolved and vapor phases. The locations with the highest concentrations of TCE in groundwater (MW-4A and MW-6) do not correlate well with the location of the highest concentration of TCE in soil vapor (SVP-8). This lack of correlation points toward potential contribution from a source other than those identified at the Site. Additionally, MW-4A is cross-gradient from the ISAs, which suggests the potential for contribution from an off-Site source. The fact that the highest concentration of TCE in soil vapor samples is consistently found in the deepest sample suggests the occurrence of contaminant flux between the dissolved and vapor phases.

* * * * *

TABLES

TABLE 1
BORING, SAMPLING, AND WELL COMPLETION MATRIX

Additional Site Assessment

Former Weber Aircraft Facility
Burbank, California

Boring Number	Sample Depth (ft bgs)	Requested Analytical	Boring Completed as		
			Backfilled Boring	Groundwater Monitoring Wel	Soil Vapor Probe
BM 1 / SVP-1	5	Metals*2			
	10	Metals *2			
	15	Metals*2; 1,2,3,TCP; 1,4 dioxane			
	20	Metals*2;			
	25	Metals*2;			
	30	Metals *2; 1,2,3,TCP; 1,4 dioxane			
	35	Metals *2			
	50	Metals*2; 1,2,3,TCP; 1,4 dioxane			X
	100	Metals*2; 1,2,3,TCP; 1,4 dioxane			X
BM 2 / SVP-2	5	Metals*2			
	10	Metals *2			
	15	Metals*2; 1,2,3,TCP; 1,4 dioxane			
	20	Metals*2;			
	25	Metals*2;			
	30	Metals *2; 1,2,3,TCP; 1,4 dioxane			
	35	Metals *2			
	50	Metals*2; 1,2,3,TCP; 1,4 dioxane			X
	100	Metals*2; 1,2,3,TCP; 1,4 dioxane			X
BM 3 / SVP-3	5	Metals*2, pH, total cyanide			
	10	Metals *2, pH, total cyanide			
	15	Metals*2; pH; total cyanide; 1,2,3,TCP; 1,4 dioxane			
	20	Metals*2; pH; total cyanide;			
	25	Metals*2; pH; total cyanide;			
	30	Metals*2; pH; 1,2,3,TCP; 1,4 dioxane			
	35	Metals*2; pH;			X
	50	Metals*2; pH; 1,2,3,TCP; 1,4 dioxane			X
	100	Metals*2; pH; 1,2,3,TCP; 1,4 dioxane			X
MW-4A / SVP-4	5	Perchlorate, Dioxins/Furans			
	25	Dioxins/Furans			
	50	Perchlorate, Dioxins/Furans		Screened interval	X
	100	Perchlorate, Dioxins/Furans		210-270 ft bgs	X
	150	Perchlorate, Dioxins/Furans			X
BM 5 / SVP-5	5	Metals*2, pH, total cyanide			
	10	Metals *2, pH, total cyanide			
	15	Metals*2; pH; total cyanide; 1,2,3,TCP; 1,4 dioxane			
	20	Metals*2; pH; total cyanide;			
	25	Metals*2; pH; total cyanide;			
	30	Metals*2; pH; 1,2,3,TCP; 1,4 dioxane			
	35	Metals*2; pH;			
	50	Metals*2; pH; 1,2,3,TCP; 1,4 dioxane			X
	100	Metals*2; pH; 1,2,3,TCP; 1,4 dioxane			X
	150	Metals*2; pH; 1,2,3,TCP; 1,4 dioxane			X
	200	Metals*2; pH; 1,2,3,TCP; 1,4 dioxane			X

Notes: Metals*1 = Collect all intervals: lab to hold pending results of 5-25 ft interval.
Metals *2 = Collect/analyze all for Hg and Cr6; other metals like *1
1,2,3-TCP = 1,2,3-Trichloropropane

**TABLE 1
BORING, SAMPLING, AND WELL COMPLETION MATRIX**

Additional Site Assessment

**Former Weber Aircraft Facility
Burbank, California**

Boring Number	Sample Depth (ft bgs)	Requested Analytical	Boring Completed as		
			Backfilled Boring	Groundwater Monitoring Well	Soil Vapor Probe
BM 6 / MW-6 / SVP-6	5	Metals (collect/analyze all)		Screened interval 210-263 ft bgs	
	10	Metals (collect/analyze all)			
	15	Metals (collect/analyze all)			
	20	Metals (collect/analyze all)			
	25	Metals (collect/analyze all)			
	30	Metals (collect/analyze all) *1			
	35	Metals (collect/analyze all) *1			
	50	Metals (collect/analyze all) *1			
	100	Metals (collect/analyze all) *1			X
	150	Metals (collect/analyze all) *1			X
	200	Metals (collect/analyze all) *1			X
BM 7 / MW-7 / SVP-7	5	Metals (collect/analyze all)		Screened interval 212-262 ft bgs	
	10	Metals (collect/analyze all)			
	15	Metals (collect/analyze all); 1,2,3,TCP; 1,4 dioxane			
	20	Metals (collect/analyze all)			
	25	Metals (collect/analyze all); 1,2,3,TCP; 1,4 dioxane			
	30	Metals (collect/analyze all) *1			
	35	Metals (collect/analyze all)*1; 1,2,3,TCP; 1,4 dioxane			
	50	Metals (collect/analyze all) *1			X
	100	Metals (collect/analyze all)*1; 1,2,3,TCP; 1,4 dioxane			X
	150	Metals (collect/analyze all)*1; 1,2,3,TCP; 1,4 dioxane			X
	200	Metals (collect/analyze all) *1			X
BM 8 / SVP-8	5	Metals*2, pH, total cyanide			
	10	Metals *2, pH, total cyanide			
	15	Metals*2; pH; total cyanide; 1,2,3,TCP; 1,4 dioxane			
	20	Metals*2; pH; total cyanide;			
	25	Metals*2; pH; total cyanide;			
	30	Metals*2; pH; 1,2,3,TCP; 1,4 dioxane			
	35	Metals*2; pH;			X
	50	Metals*2; pH; 1,2,3,TCP; 1,4 dioxane			X
	100	Metals*2; pH; 1,2,3,TCP; 1,4 dioxane			X (75')
	150	Metals*2; pH; 1,2,3,TCP; 1,4 dioxane			X
	200	Metals*2; pH; 1,2,3,TCP; 1,4 dioxane			X
BM 9 / SVP-9	5	Metals*2, pH, total cyanide			
	10	Metals *2, pH, total cyanide			
	15	Metals*2; pH; total cyanide; 1,2,3,TCP; 1,4 dioxane			
	20	Metals*2; pH; total cyanide;			
	25	Metals*2; pH; total cyanide;			
	30	Metals*2; pH; 1,2,3,TCP; 1,4 dioxane			
	35	Metals*2; pH;			
	50	Metals*2; pH; 1,2,3,TCP; 1,4 dioxane			X
	100	Metals*2; pH; 1,2,3,TCP; 1,4 dioxane			X
	150	Metals*2; pH; 1,2,3,TCP; 1,4 dioxane			X
	200	Metals*2; pH; 1,2,3,TCP; 1,4 dioxane			
BM 10 / SVP-10	5	Metals*2, pH, total cyanide			
	10	Metals *2, pH, total cyanide			
	15	Metals*2; pH; total cyanide; 1,2,3,TCP; 1,4 dioxane			
	20	Metals*2; pH; total cyanide;			
	25	Metals*2; pH; total cyanide;			
	30	Metals*2; pH; 1,2,3,TCP; 1,4 dioxane			
	35	Metals*2; pH;			
	50	Metals*2; pH; 1,2,3,TCP; 1,4 dioxane			X
	100	Metals*2; pH; 1,2,3,TCP; 1,4 dioxane			X
	150	Metals*2; pH; 1,2,3,TCP; 1,4 dioxane			X
	200	Metals*2; pH; 1,2,3,TCP; 1,4 dioxane			X

Notes: Metals*1 = Collect all intervals; lab to hold pending results of 5-25 ft interval.

Metals *2 = Collect/analyze all for Hg and Cr6; other metals like *1

1,2,3-TCP = 1,2,3-Trichloropropane

TABLE 1
BORING, SAMPLING, AND WELL COMPLETION MATRIX

Additional Site Assessment

Former Weber Aircraft Facility
Burbank, California

Boring Number	Sample Depth (ft bgs)	Requested Analytical	Boring Completed as		
			Backfilled Boring	Groundwater Monitoring Well	Soil Vapor Probe
BM 11 / SVP-11	5	Metals*2, pH, total cyanide			
	10	Metals *2, pH, total cyanide			
	15	Metals*2; pH; total cyanide; 1,2,3,TCP; 1,4 dioxane			
	20	Metals*2; pH; total cyanide;			
	25	Metals*2; pH; total cyanide;			X
	30	Metals*2; pH; 1,2,3,TCP; 1,4 dioxane			
	35	Metals*2; pH;			
	50	Metals*2; pH; 1,2,3,TCP; 1,4 dioxane			X
	100	Metals*2; pH; 1,2,3,TCP; 1,4 dioxane			X (75')
	150	Metals*2; pH; 1,2,3,TCP; 1,4 dioxane			X
	200	Metals*2; pH; 1,2,3,TCP; 1,4 dioxane			X
BM 12	5	Metals*2, pH, total cyanide	X		
	10	Metals *2, pH, total cyanide			
	15	Metals*2; pH; total cyanide; 1,2,3,TCP; 1,4 dioxane			
	20	Metals*2; pH; total cyanide;			
	25	Metals*2; pH; total cyanide;			
	30	Metals*2; pH; 1,2,3,TCP; 1,4 dioxane			
	35	Metals*2; pH;			
	50	Metals*2; pH; 1,2,3,TCP; 1,4 dioxane			
	100	Metals*2; pH; 1,2,3,TCP; 1,4 dioxane			
	150	Metals*2; pH; 1,2,3,TCP; 1,4 dioxane			
	200	Metals*2; pH; 1,2,3,TCP; 1,4 dioxane			
BM 14	5	Perchlorate, Dioxins/Furans	X		
	15	Perchlorate			
	25	Perchlorate, Dioxins/Furans			
	50	Perchlorate, Dioxins/Furans			
	100	Perchlorate, Dioxins/Furans			
	150	Perchlorate, Dioxins/Furans			
BM 15	5	Metals*2	X		
	10	Metals *2			
	15	Metals*2; 1,2,3,TCP; 1,4 dioxane			
	20	Metals*2;			
	25	Metals*2;			
	30	Metals *2; 1,2,3,TCP; 1,4 dioxane			
	35	Metals *2			
	50	Metals*2; 1,2,3,TCP; 1,4 dioxane			
	100	Metals*2; 1,2,3,TCP; 1,4 dioxane			
	150	Metals*2; 1,2,3,TCP; 1,4 dioxane			
	200	Metals*2; 1,2,3,TCP; 1,4 dioxane			
BM 16 / SVP-16	5	Perchlorate, Dioxins/Furans			
	20	Perchlorate			
	25	Dioxins/Furans			
	30	Perchlorate			
	50	Perchlorate, Dioxins/Furans			X
	100	Perchlorate, Dioxins/Furans			X
	150	Perchlorate, Dioxins/Furans			X
SW-4	200	Perchlorate, Dioxins/Furans			
		Decommissioning			
		Can be done at anytime depending upon weather			

Notes: Metals*1 = Collect all intervals; lab to hold pending results of 5-25 ft interval.

Metals *2 = Collect/analyze all for Hg and Cr6; other metals like *1

1,2,3-TCP = 1,2,3-Trichloropropane

**TABLE 1
BORING, SAMPLING, AND WELL COMPLETION MATRIX**

Additional Site Assessment

**Former Weber Aircraft Facility
Burbank, California**

Boring Number	Sample Depth (ft bgs)	Requested Analytical	Boring Completed as		
			Backfilled Boring	Groundwater Monitoring Well	Soil Vapor Probe
BM 4 DELETED BY ORDER OF RWQCB	5	Metals*2, pH, total cyanide			
	10	Metals*2, pH, total cyanide			
	15	Metals*2, pH, total cyanide; 1,2,3,TCP; 1,4 dioxane			
	20	Metals*2, pH, total cyanide;			
	25	Metals*2, pH, total cyanide;			
	30	Metals*2, pH; 1,2,3,TCP; 1,4 dioxane			
	35	Metals*2, pH;			
	50	Metals*2, pH; 1,2,3,TCP; 1,4 dioxane			X
	100	Metals*2, pH; 1,2,3,TCP; 1,4 dioxane			X
	150	Metals*2, pH; 1,2,3,TCP; 1,4 dioxane			
	200	Metals*2, pH; 1,2,3,TCP; 1,4 dioxane			X
BM 13 ON HOLD BY ORDER OF RWQCB	5	Metals*2, pH, total cyanide	X		
	10	Metals*2, pH, total cyanide			
	15	Metals*2, pH; total cyanide; 1,2,3,TCP; 1,4 dioxane			
	20	Metals*2, pH; total cyanide;			
	25	Metals*2, pH; total cyanide;			
	30	Metals*2, pH; 1,2,3,TCP; 1,4 dioxane			
	35	Metals*2, pH;			
	50	Metals*2, pH; 1,2,3,TCP; 1,4 dioxane			
	100	Metals*2, pH; 1,2,3,TCP; 1,4 dioxane			
	150	Metals*2, pH; 1,2,3,TCP; 1,4 dioxane			
	200	Metals*2, pH; 1,2,3,TCP; 1,4 dioxane			
BM 17 ON HOLD BY ORDER OF RWQCB	5	Metals (collect/analyze all)	X		
	10	Metals (collect/analyze all)			
	15	Metals (collect/analyze all)			
	20	Metals (collect/analyze all)			
	25	Metals (collect/analyze all)			
	30	Metals (collect/analyze all) *1			
	35	Metals (collect/analyze all) *1			
	50	Metals (collect/analyze all) *1			
	100	Metals (collect/analyze all) *1			
	150	Metals (collect/analyze all) *1			
	200	Metals (collect/analyze all) *1			

Borings BM 13 and BM 17 were removed from this phase of site activities at the direction of the Regional Board

TABLE 2
HISTORICAL BUILDING AND CHEMICAL/MATERIALS USE
MATRIX

Former Weber Aircraft Facility
Burbank, California

ISA	Description	Building Use - Chemicals Materials	Previous Investigation Results	Previous Remedial Activity
1	North-central portion of the receiving dock area of Bldgs 207 and 208	Raw material receiving and storage (Buildings 207 & 208) 1,000 gal capacity UST for gasoline (north of Building 208) Cutting, machining and grinding equipment during 1960 (Building 208) Plaster pattern shop-spray booth, grinder and ventilated mixing room (Building 208) - Hydraulic Oils - Cutting Oils - Kerosene - Solvents	1992 soil sample had high Chromium (Cr) (637 mg/Kg). March 1993-yellow stained soil identified in approximately 1,000 ft2 of ISA-1 during demolition activities and was assumed to extend to a depth of approximately 3 ft bgs.	110 cubic yards of impacted soil excavated to a depth of 1 ft bgs. No soil staining upon completion of excavation. Confirmation testing for Cr at 6.83 mg/kg (ISA1-2) and 8.06 mg/kg (ISA1-2). Gasoline UST closed in place in 1986, then removed in 1992.
2	Near Former Building 230	Area used as tool storage and equipment "boneyard"	October 1992 two surface soil samples contained high PCE and lead.	March 1993 - 25 cubic yards of soil excavated to a depth of 1 ft bgs. Two soil samples (ISA2-1 and ISA2-2) collected 1 ft below base of excavation and PCE and lead both below detection limit.
3	Former location of Building W-9	Chemical Storage - Chromic Acid (wet and dry) - Sodium Cyanide - Phosphoric Acid - Zinc - Isocyanate - 1,1,1, Trichloroethane - Toluene - Epoxy Thinner - Methyl ethyl ketone (M.E.K.) Xylene - 600-66 Solvent (Toluene, Ethyl Alcohol) - Acrylic Thinner (M.E.K, Ethylacetate, Toluene, Xylene)	Four soil borings in vicinity of ISA3 (A1-1 through A1-4) had concentrations below Region IX PRGs.	No soil excavation conducted. Soil Vapor Extraction well, V-1, located in this area. Well screened between 80-100' deep.
4	Former Building 218	Crate Shop - Solvents - Paints - Adhesives	Nov 1992 Slight-greenish stained soil found in ISA4. Cr detected as high as 203 mg/Kg.	March 1993 50 cubic yards of soil excavated to a depth of 3 ft bsg. 2 confirmation samples collected at base of "excavation", Cr below PRGs.
5	Surrounded by Buildings 223, W-4, W-3, and 215	Fabrication of seat covers, electrical assembly, final assembly of crew seats and airstairs (Building 223) Assembly Area, Plastic Forming and Milling, Painting (Building W-4) Metal Working, Stainless Steel Fabrication (Building W-3) Paint Shop (Building 215) - M.E.K. - Adhesives - Epoxy Resins - Spot Removers (solvents) - Chromium - 1,1,1, Trichloroethane	Eight soil borings in ISA5. Concentrations of chlorinated volatile organic compounds (CVOCs) above Region IX PRG (DAF=20 PRG) in shallow soil samples. Additional borings drilled and only limited PCE detected in four ISA5 borings at shallow depths.	No soil excavation conducted. SVE well V-3 located in this area. Well screened between 80-100' deep.
6	Sump C-10 Area, SW of Bldg 223	Seat Fabrication, Electrical Assembly, Final Assembly - Adhesives - Spot Removers (solvents) - Epoxy Resins - Epoxy Thinner (M.E.K., Xylene) - Acrylic Thinner (M.E.K., Ethylacetate, Toluene, Xylene) - 600-66 Solvent (Toluene, Ethyl Alcohol) - Paint Stripper 359-W (formic acid, chlorinated hydrocarbons, phenols)	Four shallow soil samples within ISA6 at elevated VOC levels. Mercury was also detected. TPH also detected in ISA6-2	No soil excavation conducted. Soil Vapor Extraction well, V-2, located in this area. Well screened between 77-97' deep.
7	Clarifier C-17 Area	Metal Plating (Aluminum and Steel Anodizing, Cadmium Plating) - above ground 250 PCE tank - Hydrochloric, Sulfuric, chromic, nitric, and hydrofluoric acids - Alkaline cleaners - Sodium Cyanide - Zinc - PCE	1990 Nine soil borings - several soil samples above PRGs for PCE, Cd, Cr. March 1993-Green stained soil was identified near clarifier.	Excavation immediately in the area of Clarifier C-17 measures 18x14x19 ft (approximately 168 cy soil disposed). Feb 1998 metals impacted soil excavated from ISA7. Several soil samples in ISA7 above PRGs. SVE well V-7 located in this area. Well screened between 80 -100' deep.
8	Distillery Vats	No documentation available.	Distillery vats were found underneath the slab of Bldgs 207 & 208 that were built in 1930s. Assumed these vats were used in 1920s and 30s with Three G Distillery. Nov 1992 four soil samples collected within or adjacent to vats. One sample within vat had higher levels of PCE, Cd, Cr, & Cu.	These vats were removed and confirmation samples collected below the vats, nothing detected. March 1993 -Soil samples from 4 borings to 34 ft bgs, no compound above response level. (WCC Aug 1993)
9	Degreaser Area - South of Bldg 211	Storage of Tedlar and Nomex plastic structural materials Degreaser pit on South side of building 211 Tank 1 M.E.K (1000gal capacity) Tank 2 M.E.K (1000gal capacity) Tank 3 Trim-Sol Lubricant (1000gal capacity) Tank 4 Isopropanol (500gal capacity) Tank 5 Toluene (500gal capacity) Tank 6 Lacquer Thinner (500gal capacity)	This area is near former degreaser and also had 6 USTs properly removed. 1990- 7 soil borings indicated PCE above PRG. Significant detections of PCE, Benzene, Acetone and Toluene in DG-3 (at N end of ISA-9). Additional borings in March 1993 - PCE high.	The 6 single walled storage tanks were abandoned in place in 1986 by filling them with concrete slurry. Tanks were physically removed in 1992. SVE well V-2 in this area.
10	South end of Bldg W-6	Machining, Heat Treating and Quenching - Cutting Oils - Hydraulic Fluid - Grinding Compounds	1990-Soil samples from 5 borings. 1,1,1-TCA and PCE were detected at levels exceeding PRGs in depths above 15 feet. Mercury also detected in soil down to 25 feet.	No excavation conducted. SVE well V-5 located in this area. Well screened between 80 - 100' deep.
11	Former location of Bldg W-7	1,000 gal capacity UST for Gasoline northeast of Bldg W7 Manufacture of Military Fighter Components Including ejection seats - M.E.K.	October 1992-Soil W-7-1, and W-7-2 sampled from heavily stained materials, PCE and heavy hydrocarbons noted in samples. March 1993-Stained soils were identified in ISA-11. Soil samples from catch basins indicated VOCs.	Catch basins removed, no confirmation soil sampling completed. UST closed in place in 1986 and removed in 1992.
	Burn and Pyro Test Areas	No description provided.	Nothing presented in project documents.	Nothing presented in project documents.

TABLE 2
HISTORICAL BUILDING AND CHEMICAL/MATERIALS USE
MATRIX

Former Weber Aircraft Facility
Burbank, California

Description	Building Use - Hazardous Materials	Previous Investigation Results	Previous Remedial Activity
Building Number (not associated with any ISA)			
SE portion of Property	No description provided.	Borings VM-P3 and D-4 had high concentrations of PCE at a depth of 80 ft bgs. Boring for SW-3 and C-5A had detections of PCE. PCE in GW at SW-3 was highest onsite.	Nothing presented in project documents.
Burn and Pyro Test Areas	No description provided.	Nothing presented in project documents.	Nothing presented in project documents.
W-1	<ul style="list-style-type: none"> - Engineering test lab for performance properties of manufactured aircraft components. - Storage of small amounts of oils, solvents, cleaners, adhesives, and paint. - Carpenter Shop - Maintenance - High and low temp testing of components 	C-27A is the only boring inside building footprint. ND for VOCs to 13'	Nothing presented in project documents.
W-2	Prototyping department (machinery, cutout saws, shears, etc.)	Building on W side of Ontario Street	Nothing presented in project documents.
W-5	<ul style="list-style-type: none"> - Plastics Forming and Milling - cover application - Painting - Final assembly and inspection of galley - Indications of presence of adhesive spray booth and sanding booth - M.E.K 	Building on W side of Ontario Street	Nothing presented in project documents.
210	<ul style="list-style-type: none"> - Main Stockroom Area where incoming lavatory modules were handled prior to service. - Hydraulic Oil 	Nothing presented in project documents.	Nothing presented in project documents.
214	<ul style="list-style-type: none"> - Metalworking, Buff Shop, Spot Weld, Stainless Steel Fabrication. - Solvents, Compressed gases, Metal Cleaners. - Chromic Acid 	Numerous borings inside building footprint and just south of building. Most VOC impacts at depths less than 5 feet. Two borings (D-3 and SW-3) had VOCs at 70 and 140' bgs, respectively. However concentrations were below PRGs.	Nothing presented in project documents.
214A	<ul style="list-style-type: none"> - Metal Plating - Aluminum and Steel anodizing and Cadmium plating - Solvent Degreaser - above ground 250 PCE tank - Hydrochloric, Sulfuric, chromic, nitric, and hydrofluoric acids - Alkaline cleaners - Sodium Cyanide - Zinc - PCE 	Area had secondary containment (cinderblock and mortar). Liquid was observed seeping through containment walls. North end of Bldg 214 had VOC concentrations exceeding PRGs in two borings (B-29 and B-28), however at depths of 2.5 ft bgs.	Vapor extraction well, V-7 located nearby, remediated the vadoze zone, with screened intervals from 10-30, 50-70, and 80-100 feet below ground surface.
215A	<ul style="list-style-type: none"> - Metalworking, spot and arc welding, stainless steel fabrication, tool inspection. - Solvents, compressed gases, metal cleaners. 	Borings in immediate vicinity of Bldg 215A only VOCs detected below PRGs and above 15' bgs	Nothing presented in project documents.
224	Industrial health and safety office	Nothing presented in project documents.	Nothing presented in project documents.

TABLE 3
SUMMARY OF
METALS IN SOIL

Additional Site Assessment

Former Weber Aircraft Facility
Burbank, California

Boring ID	Depth (ft)	Date Sampled	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Chromium VI	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
Analytical Reporting Units			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
USEPA Region 9 Soil Screening Levels DAF=20			5.0	29	1,600	63	8.0	38	38	1,900*	41,000*	800*	310*	5,100*	130	5.0	34	67*	6,000	12,000
BM-1	5	18-Nov-06	<10	<2.0	58	<0.50	<0.50	8.2	<0.20	4	13	<2.0	0.028	<2.0	4.8	<2.0	<1.0	<10	22	26
	10	18-Nov-06	<9.9	<2.0	47	<0.50	<0.50	10	<0.20	2.9	8.3	<2.0	0.02	<2.0	4	<2.0	<0.99	<9.9	14	19
	15	18-Nov-06	<10	<2.0	54	<0.50	<0.50	5.4	<0.20	2.8	11	<2.0	0.022	<2.0	2.9	<2.0	<1.0	<10	13	18
	20	18-Nov-06	<10	<2.0	39	<0.50	<0.50	4.5	<0.20	2.6	6.7	<2.0	<0.020	<2.0	2.8	<2.0	<1.0	<10	13	16
	25	18-Nov-06	<10	<2.0	46	<0.50	<0.50	7.7	<0.20	3.1	6.9	<2.0	0.022	<2.0	3.7	<2.0	<1.0	<10	16	19
	30	18-Nov-06	-	-	-	-	-	-	<0.20	-	-	-	0.04	-	-	-	-	-	-	-
	35	18-Nov-06	-	-	-	-	-	-	<0.20	-	-	-	<0.020	-	-	-	-	-	-	-
	50	18-Nov-06	-	-	-	-	-	-	<0.20	-	-	-	0.046	-	-	-	-	-	-	-
	100	19-Nov-06	-	-	-	-	-	-	<0.20	-	-	-	0.26	-	-	-	-	-	-	-
	150	19-Nov-06	-	-	-	-	-	-	<0.20	-	-	-	0.023	-	-	-	-	-	-	-
	200	20-Nov-06	-	-	-	-	-	-	<0.20	-	-	-	0.025	-	-	-	-	-	-	-
BM-2	5	15-Dec-06	<10 J	2.2	29	<0.50	<0.50	2.5	<0.20	1.8	5.9	12	0.076	<2.0	2.4	<2.0	<1.0	<10	9.2	13
	10	15-Dec-06	<10 J	2.4	26	<0.50	<0.50	2.2	<0.20	1.8	4.1	13	<0.020	<2.0	2.3	<2.0	<1.0	<10	8.1	13
	15	15-Dec-06	<10 J	2.9	38	<0.50	<0.50	6.1	<0.20	3.2	5.9	6.7	<0.020	<2.0	3.4	<2.0	<1.0	<10	21	17
	20	15-Dec-06	<10 J	<2.0	36	<0.50	<0.50	4.1	<0.20	2.7	6.3	<2.0	0.13	<2.0	3	<2.0	<1.0	<10	11	16
	25	15-Dec-06	<10 J	4.3	120	<0.50	<0.50	16	<0.20	8.7	20	2.9	0.032	<2.0	12	<2.0	1.1	<10	39	48
	30	15-Dec-06	-	-	-	-	-	-	<0.20	-	-	-	<0.020	-	-	-	-	-	-	-
	35	15-Dec-06	-	-	-	-	-	-	<0.20	-	-	-	<0.020	-	-	-	-	-	-	-
	50	15-Dec-06	-	-	-	-	-	-	<0.20	-	-	-	0.045	-	-	-	-	-	-	-
	100	15-Dec-06	-	-	-	-	-	-	<0.20	-	-	-	<0.020	-	-	-	-	-	-	-
	150	15-Dec-06	<10 J	4.1	100	<0.50	<0.50	12	<0.20	7.4	14	3.1	0.03	<2.0	8.4	<2.0	<1.0	<10	32	48 J
	200	16-Dec-06	<10 J	<2.0	71	<0.50	<0.50	11	<0.20	4.4	7.7	2.1	1.5	<2.0	8.2	<2.0	<1.0	<10	23	24 J
BM-3	5	11-Dec-06	<10	3.5	60	<0.50	<0.50	7.6	<0.20	3.9	15	4.1	0.029	<2.0	7.2	<2.0	<1.0	<10	20	40
	10	11-Dec-06	<10	<2.0	57	<0.50	<0.50	5	<0.20	2.9	16	<2.0	0.032	<2.0	3.6	<2.0	<1.0	<10	18	22
	15	11-Dec-06	<10	2.7	53	<0.50	<0.50	8.1	<0.20	3.7	15	2.3	0.02	<2.0	5.2	<2.0	<1.0	<10	22	26
	20	11-Dec-06	<10	<2.0	40	<0.50	<0.50	4.2	<0.20	2.3	9.4	<2.0	0.44	<2.0	3	<2.0	<1.0	<10	12	17
	25	11-Dec-06	<10	2.5	70	<0.50	<0.50	7.5	<0.20	4.1	14	2.4	0.034	<2.0	5.4	<2.0	<1.0	<10	22	27
	30	11-Dec-06	-	-	-	-	-	-	<0.20	-	-	-	0.037	-	-	-	-	-	-	-
	35	11-Dec-06	-	-	-	-	-	-	<0.20	-	-	-	<0.020	-	-	-	-	-	-	-
	50	11-Dec-06	-	-	-	-	-	-	<0.20	-	-	-	<0.020	-	-	-	-	-	-	-
	100	12-Dec-06	-	-	-	-	-	-	<0.20	-	-	-	0.65	-	-	-	-	-	-	-
	150	12-Dec-06	-	-	-	-	-	-	<0.20	-	-	-	0.032	-	-	-	-	-	-	-
	200	13-Dec-06	<10 J	2.4	50	<0.50	<0.50	4.5	<0.20	3.0	57	<2.0	0.036	<2.0	3.3	<2.0	<1.0	<10	13	36 J
BM-5	5	27-Nov-06	<10	<2.0	39	<0.50	<0.50	4.4	<0.20	2.4	11	<2.0	0.021	<2.0	2.5	<2.0	<1.0	<10	17	17
	10	27-Nov-06	<10	<2.0	41	<0.50	<0.50	7.7	<0.20	3.1	6	<2.0	0.13	<2.0	3.6	<2.0	<1.0	<10	19	16
	15	27-Nov-06	<10	2.7	43	<0.50	<0.50	7.4	<0.20	3.1	2.6	2	0.023	<2.0	3.6	<2.0	<1.0	<10	27	18
	20	27-Nov-06	<10	<2.0	42	<0.50	<0.50	6.7	<0.20	3	9.5	<2.0	0.02	<2.0	3.5	<2.0	<1.0	<10	23	18
	25	27-Nov-06	<9.9	<2.0	54	<0.50	<0.50	10	<0.20	4	9.8	2.3	0.028	<2.0	3.9	<2.0	<0.99	<9.9	31	26
	30	27-Nov-06	-	-	-	-	-	-	<0.20	-	-	-	0.02	-	-	-	-	-	-	-
	35	27-Nov-06	-	-	-	-	-	-	<0.20	-	-	-	0.027	-	-	-	-	-	-	-
	50	28-Nov-06	-	-	-	-	-	-	<0.20	-	-	-	0.08	-	-	-	-	-	-	-
	100	28-Nov-06	-	-	-	-	-	-	<0.20	-	-	-	0.093	-	-	-	-	-	-	-
	150	28-Nov-06	-	-	-	-	-	-	<0.20	-	-	-	0.053	-	-	-	-	-	-	-
	200	29-Nov-06	-	-	-	-	-	-	<0.20	-	-	-	0.041	-	-	-	-	-	-	-

TABLE 3
SUMMARY OF
METALS IN SOIL

Additional Site Assessment

Former Weber Aircraft Facility
Burbank, California

Boring ID	Depth (ft)	Date Sampled	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Chromium VI	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
Analytical Reporting Units			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
USEPA Region 9 Soil Screening Levels DAF=20			5.0	29	1,600	63	8.0	38	38	1,900*	41,000*	800*	310*	5,100*	130	5.0	34	67*	6,000	12,000
BM-6	5	13-Nov-06	<10	2.2	70	<0.50	0.55	12	-	4.7	10	9.1	0.034	<2.0	6.7	<2.0	<1.0	<10	22	39
	10	13-Nov-06	<10	<2.0	50	<0.50	<0.50	5.8	-	2.9	6.6	<2.0	<0.020	<2.0	4	<2.0	<1.0	<10	18	17
	15	13-Nov-06	<10	<2.0	46	<0.50	<0.50	5.6	-	3.5	6.6	<2.0	<0.020	<2.0	3.5	<2.0	<1.0	<10	19	18
	20	13-Nov-06	<10	3.1	93	<0.50	<0.50	15	-	7.7	17	2.7	0.032	<2.0	9.9	<2.0	<1.0	<10	37	42
	25	13-Nov-06	<10	<2.0	33	<0.50	<0.50	5.1	-	2.1	4.8	<2.0	<0.020	<2.0	2.6	<2.0	<1.0	<10	16	14
	30	13-Nov-06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	35	13-Nov-06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	50	13-Nov-06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	100	20-Nov-06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	150	21-Nov-06	<10	2.3	110	<0.50	<0.50	17	-	8.3	16	4.4	0.048	<2.0	12	<2.0	<1.0	<10	36	57
	200	29-Nov-06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BM-7	5	3-Dec-06	<10 J	<2.0	47	<0.50	<0.50	11	-	2.3	23	3.2	<0.020	2.4	15	<2.0	<1.0	<10	20	36
	10	3-Dec-06	<10 J	<2.0	63	<0.50	<0.50	9.5	-	4.4	13	2.2	0.025	<2.0	4.8	<2.0	<1.0	<10	30	29
	15	3-Dec-06	<10 J	<2.0	37	<0.50	<0.50	5.5	-	3.7	6.1	<2.0	0.021	<2.0	3.1	<2.0	<1.0	<10	16	15
	20	4-Dec-06	<10 J	<2.0	41	<0.50	<0.50	7.8	-	3.2	7.1	<2.0	0.037	<2.0	3.5	<2.0	<1.0	<10	21	18
	25	4-Dec-06	<10 J	<2.0	44	<0.50	<0.50	16	-	2.6	6.8	<2.0	0.046	2	3.2	<2.0	<1.0	<10	16	18
	30	4-Dec-06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	35	4-Dec-06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	50	4-Dec-06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	100	4-Dec-06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	150	5-Dec-06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	200	5-Dec-06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BM-8	5	4-Dec-06	<10	<2.0	54	<0.50	<0.50	6.0	0.61	3.8	11	6.3	0.08	<2.0	7.7	<2.0	<1.0	<10	15	35
	10	4-Dec-06	<10	<2.0	68	<0.50	<0.50	120	8.9	5.1	19	3.7	0.024	<2.0	5.6	<2.0	<0.99	<9.9	21	32
	15	4-Dec-06	<10	<2.0	44	<0.50	<0.50	38	2.4	3.9	10	7.3	0.03	<2.0	4.4	<2.0	<1.0	<10	16	32
	20	4-Dec-06	<10	<2.0	32	<0.50	<0.50	250	13	2.1	11	<2.0	<0.020	<2.0	2.3	<2.0	<1.0	<10	9.9	14
	25	4-Dec-06	<10	<2.0	29	<0.50	<0.50	24	4.6	2	7.2	<2.0	<0.020	<2.0	2.3	<2.0	<1.0	<10	7.1	13
	30	4-Dec-06	-	-	-	-	-	-	0.66	-	-	-	0.022	-	-	-	-	-	-	-
	35	4-Dec-06	-	-	-	-	-	-	0.32	-	-	-	0.029	-	-	-	-	-	-	-
	50	4-Dec-06	-	-	-	-	-	-	2.6	-	-	-	0.02	-	-	-	-	-	-	-
	115	4-Dec-06	-	-	-	-	-	-	0.44	-	-	-	<0.020	-	-	-	-	-	-	-
	150	5-Dec-06	-	-	-	-	-	-	5.1	-	-	-	0.064	-	-	-	-	-	-	-
	200	5-Dec-06	-	-	-	-	-	-	<0.20	-	-	-	0.036	-	-	-	-	-	-	-
BM-9	5	1-Dec-06	<10	2.7	75	<0.50	<0.50	8.5	<0.20	4.5	17	8.4	0.026	<2.0	7	<2.0	<1.0	<10	20	38
	10	1-Dec-06	<10	<2.0	43	<0.50	<0.50	3.6	<0.20	2.4	6.3	<2.0	<0.020	<2.0	3.2	<2.0	<1.0	<10	11	18
	15	1-Dec-06	<10	<2.0	36	<0.50	<0.50	3.4	<0.20	2.2	9.5	<2.0	0.035	<2.0	2.7	<2.0	<1.0	<10	10	20
	20	1-Dec-06	<10	<2.0	35	<0.50	<0.50	3.2	<0.20	2.1	8.7	<2.0	0.044	<2.0	2.3	<2.0	<1.0	<10	9.9	17
	25	1-Dec-06	<10	<2.0	39	<0.50	<0.50	4.1	<0.20	2.8	11	<2.0	0.025	<2.0	2.9	<2.0	<1.0	<10	14	18
	30	1-Dec-06	-	-	-	-	-	-	<0.20	-	-	-	0.025	-	-	-	-	-	-	-
	35	1-Dec-06	-	-	-	-	-	-	<0.20	-	-	-	0.031	-	-	-	-	-	-	-
	50	1-Dec-06	-	-	-	-	-	-	<0.20	-	-	-	0.022	-	-	-	-	-	-	-
	100	1-Dec-06	-	-	-	-	-	-	<0.20	-	-	-	0.02	-	-	-	-	-	-	-
	150	2-Dec-06	-	-	-	-	-	-	<0.20	-	-	-	0.11	-	-	-	-	-	-	-
	200	2-Dec-06	-	-	-	-	-	-	0.2	-	-	-	0.067	-	-	-	-	-	-	-


TABLE 3
SUMMARY OF
METALS IN SOIL

Additional Site Assessment

Former Weber Aircraft Facility
Burbank, California

Boring ID	Depth (ft)	Date Sampled	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Chromium VI	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
Analytical Reporting Units			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
USEPA Region 9 Soil Screening Levels DAF=20			5.0	29	1,600	63	8.0	38	38	1,900*	41,000*	800*	310*	5,100*	130	5.0	34	67*	6,000	12,000
BM-10	5	17-Dec-06	<10	<2.0	41	<0.50	<0.50	3.2	<0.20	2.1	6.6	<2.0	<0.020	<2.0	2.7	<2.0	<1.0	<10	92	15
	10	17-Dec-06	<10	2.1	50	<0.50	<0.50	6.2	<0.20	3.3	9	<2.0	<0.020	<2.0	3.8	<2.0	<1.0	<10	19	19
	15	17-Dec-06	<9.9	<2.0	37	<0.50	<0.50	3.7	<0.20	2.5	5.2	<2.0	<0.020	<2.0	2.7	<2.0	<0.99	<9.9	13	17
	20	17-Dec-06	<9.9	<2.0	45	<0.50	<0.50	5.2	0.6	2.6	12	<2.0	<0.020	<2.0	3.3	<2.0	<0.99	<9.9	12	19
	25	17-Dec-06	<9.9	<2.0	43	<0.50	<0.50	3.9	<0.20	2.7	5.6	<2.0	<0.020	<2.0	2.9	<2.0	<0.99	<9.9	12	16
	30	17-Dec-06	-	-	-	-	-	-	0.98	-	-	-	0.021	-	-	-	-	-	-	-
	35	17-Dec-06	-	-	-	-	-	-	0.49	-	-	-	0.031	-	-	-	-	-	-	-
	50	17-Dec-06	-	-	-	-	-	-	<0.20	-	-	-	0.025	-	-	-	-	-	-	-
	100	17-Dec-06	<10 J	2.5	120	<0.50	<0.50	36	8.3	4.9	15	<2.0	<0.020	<2.0	3.9	<2.0	<1.0	<10	23	29
	150	17-Dec-06	-	-	-	-	-	-	0.26	-	-	-	0.049	-	-	-	-	-	-	-
	200	18-Dec-06	<10 J	<2.0	44	<0.50	<0.50	7.6	0.22	3.6	41	<2.0	0.026	<2.0	3.3	<2.0	<1.0	<10	16	75
BM-11	5	17-Dec-06	<10	2.2	90	<0.50	<0.50	12	<0.20	5.9	13	6.7	0.024	<2.0	7.2	<2.0	<1.0	<10	28	40
	10	17-Dec-06	<9.9	<2.0	52	<0.50	<0.50	4.9	<0.20	5	6.9	<2.0	<0.020	<2.0	4.3	<2.0	<0.99	<9.9	15	20
	15	17-Dec-06	<10	<2.0	57	<0.50	<0.50	4.1	<0.20	3.3	6.4	<2.0	0.035	<2.0	4.3	<2.0	<1.0	<10	14	20
	20	17-Dec-06	<10	<2.0	36	<0.50	<0.50	3.1	<0.20	2.4	6.9	<2.0	0.045	<2.0	2.8	<2.0	<1.0	<10	12	15
	25	17-Dec-06	<10	<2.0	41	<0.50	<0.50	5.9	<0.20	2.7	6.1	<2.0	0.03	<2.0	3.9	<2.0	<1.0	<10	15	17
	30	17-Dec-06	<10 J	2.3	46	<0.50	<0.50	7	<0.20	2.9	6.4	<2.0	0.037	<2.0	3.4	<2.0	<1.0	<10	15	15 J
	35	17-Dec-06	<10 J	3.8	82	<0.50	<0.50	12	<0.20	5.1	11	<2.0	0.023	<2.0	6.4	<2.0	<1.0	<10	25	30 J
	50	17-Dec-06	<10 J	2.3	54	<0.50	<0.50	6.3	<0.20	5.3	7.3	<2.0	0.021	<2.0	3.3	<2.0	<1.0	<10	26	19 J
	100	17-Dec-06	<10 J	<2.0	56	<0.50	<0.50	4.8	<0.20	3.3	8.8	3.2	0.037	<2.0	3	<2.0	<1.0	<10	17	17 J
	150	17-Dec-06	<10 J	3.4	100	<0.50	<0.50	11	<0.20	6.7	14	3	0.038	<2.0	8.2	<2.0	<1.0	<10	30	43 J
	200	18-Dec-06	<10 J	2.3	50	<0.50	<0.50	6.1	<0.20	2.8	6.6	<2.0	0.15	<2.0	3.8	<2.0	<1.0	<10	16	15 J
BM-12	7	14-Dec-06	<9.9 J	2.6	68 J	<0.50	<0.50	5.7	<0.20	3.6	11	2.1	0.021	<2.0	4.2	<2.0	<0.99	<9.9	19	29
	10	14-Dec-06	<10 J	<2.0	39	<0.50	<0.50	7.4	<0.20	2.8	8.4	<2.0	<0.020	<2.0	3.4	<2.0	<1.0	<10	14	15
	15	14-Dec-06	<9.9 J	3.1	83 J	<0.50	<0.50	11	<0.20	5.3	14	2.8	0.02	<2.0	7.6	<2.0	<0.99	<9.9	30	43
	20	14-Dec-06	<9.9	2.1	42	<0.50	<0.50	5.1	<0.20	3	11	<2.0	0.024	<2.0	3.7	<2.0	<0.99	<9.9	14	20
	25	14-Dec-06	<10 J	3.2	64 J	<0.50	<0.50	6.7	<0.20	3.6	14	<2.0	0.022	<2.0	4.7	<2.0	<1.0	<10	17	31
	30	14-Dec-06	-	-	-	-	-	-	<0.20	-	-	-	0.067	-	-	-	-	-	-	-
	35	14-Dec-06	<10 J	3.7	97	<0.50	<0.50	13	<0.20	7.2	19	2.6	0.025	<2.0	8.6	<2.0	<1.0	<10	35	45 J
	50	14-Dec-06	<10 J	3.2	89	<0.50	<0.50	11	<0.20	6.2	18	2.4	<0.020	<2.0	7.2	<2.0	<1.0	<10	30	59 J
	100	15-Dec-06	-	-	-	-	-	-	<0.20	-	-	-	0.033	-	-	-	-	-	-	-
	150	15-Dec-06	<10 J	3.1	89	<0.50	<0.50	10	<0.20	6.7	12	2.9	0.042	<2.0	7.5	<2.0	<1.0	<10	27	41 J
	200	16-Dec-06	<10 J	2.5	39	<0.50	<0.50	4.7	<0.20	3.2	7	<2.0	0.044	<2.0	2.9	<2.0	<1.0	<10	17	14 J
BM-15	5	30-Nov-06	<10	<2.0	60	<0.50	<0.50	5.1	<0.20	3.8	6.9	2.2	<0.020	<2.0	3.2	<2.0	<1.0	<10	20	20
	10	30-Nov-06	<10	<2.0	37	<0.50	<0.50	4.7	<0.20	2.9	7.2	<2.0	<0.020	<2.0	2.7	<2.0	<1.0	<10	14	21
	15	30-Nov-06	<10	<2.0	52	<0.50	<0.50	15	<0.20	3.5	9.3	2.4	<0.020	<2.0	3.5	<2.0	<1.0	<10	18	18
	20	30-Nov-06	<10	<2.0	44	<0.50	<0.50	3.4	<0.20	2.7	6.1	2.2	<0.020	<2.0	2	<2.0	<1.0	<10	13	14
	25	30-Nov-06	<10	2.4	110	<0.50	<0.50	15	<0.20	8.6	21	4.3	0.042	<2.0	9.8	<2.0	<1.0	<10	42	44
	30	30-Nov-06	-	-	-	-	-	-	<0.20	-	-	-	0.032	-	-	-	-	-	-	-
	35	30-Nov-06	-	-	-	-	-	-	<0.20	-	-	-	<0.020	-	-	-	-	-	-	-
	50	1-Dec-06	-	-	-	-	-	-	<0.20	-	-	-	0.03	-	-	-	-	-	-	-
	100	1-Dec-06	-	-	-	-	-	-	<0.20	-	-	-	0.04	-	-	-	-	-	-	-
	150	1-Dec-06	-	-	-	-	-	-	<0.20	-	-	-	0.052	-	-	-	-	-	-	-
	200	1-Dec-06	-	-	-	-	-	-	<0.20	-	-	-	0.036	-	-	-	-	-	-	-

Notes:

-  Shading for presentation purposes only
- Bold** = Concentrations exceeding Soil Screening levels are in Bold
- *** = No Region 9 Soil Screening level available, PRG for Industrial Soil used for comparison instead
- NR** = Not reported.
- NL** = Not listed.
- = Not analysed
- <=** = Concentrations below listed detection limit

Burns & McDonnell Qualifiers:

J Qualified as estimate during data review.

Definitions:

mg/kg Milligrams per kilogram
DAF Dilution Attenuation Factor

**TABLE 4
SUMMARY OF
EMERGING CHEMICALS IN SOIL**

Additional Site Assessment

**Former Weber Aircraft Facility
Burbank, California**

Well ID	Depth (ft)	Date Sampled	Total Cyanide	pH	Perchlorate	1,4 - Dioxane	1,2,3 - TCP
Analytical Reporting Units			mg/kg	pH units	mg/kg	mg/kg	mg/kg
USEPA Region 9 PRGs Residential Soil (mg/kg)			1,200	NL	7.8	18*	0.034
BM-1	5	18-Nov-06	-	-	-	-	-
	10	18-Nov-06	-	-	-	-	-
	15	18-Nov-06	-	-	-	<0.025 J	<0.0000099 J
	20	18-Nov-06	-	-	-	-	-
	25	18-Nov-06	-	-	-	-	-
	30	18-Nov-06	-	-	-	<0.025 J	<0.0000096 J
	35	18-Nov-06	-	-	-	-	-
	50	18-Nov-06	-	-	-	<0.025 J	<0.0000086 J
	100	19-Nov-06	-	-	-	<0.025 J	<0.0000089 J
	150	19-Nov-06	-	-	-	<0.025 J	<0.0000091 J
	200	20-Nov-06	-	-	-	<0.025	<0.0000099
BM-2	5	15-Dec-06	-	-	-	-	-
	10	15-Dec-06	-	-	-	-	-
	15	15-Dec-06	-	-	-	<0.025	<0.0000098
	20	15-Dec-06	-	-	-	-	-
	25	15-Dec-06	-	-	-	-	-
	30	15-Dec-06	-	-	-	<0.025	<0.0000095
	35	15-Dec-06	-	-	-	-	-
	50	15-Dec-06	-	-	-	<0.025	<0.0000013
	100	15-Dec-06	-	-	-	<0.025	<0.0000012
	150	15-Dec-06	-	-	-	<0.025	<0.0000011
	200	16-Dec-06	-	-	-	<0.025	<0.0095
BM-3	5	11-Dec-06	<0.50	10.6 J	-	-	-
	10	11-Dec-06	<0.50	8.85 J	-	-	-
	15	11-Dec-06	<0.50	8.58 J	-	<0.025	<0.0000078
	20	11-Dec-06	<0.50	-	-	-	-
	25	11-Dec-06	<0.50	-	-	-	-
	30	11-Dec-06	-	8.65 J	-	<0.025	<0.0000098
	35	11-Dec-06	-	8.79 J	-	-	-
	50	11-Dec-06	-	8.88 J	-	<0.025	<0.0000011
	100	12-Dec-06	-	8.42	-	<0.025	<0.0000089
	150	12-Dec-06	-	8.18	-	<0.025	0.00018
	200	13-Dec-06	-	8.55 J	-	<0.025	<0.0000010
MW-4A	5	3-Jan-07	-	-	<0.040 J	-	-
	50	3-Jan-07	-	-	<0.040 J	-	-
	100	3-Jan-07	-	-	<0.040 J	-	-
	150	4-Jan-07	-	-	<0.040 J	-	-
	200	4-Jan-07	-	-	<0.040 J	-	-
BM-5	5	27-Nov-06	<0.50	6.95	-	-	-
	10	27-Nov-06	<0.50	6.93	-	-	-
	15	27-Nov-06	<0.50	6.96	-	<0.025	<0.0000095
	20	27-Nov-06	<0.50	7.13	-	-	-
	25	27-Nov-06	<0.50	7.38	-	-	-
	30	27-Nov-06	-	7.83	-	<0.025	<0.0000010
	35	27-Nov-06	-	8.45	-	-	-
	50	28-Nov-06	-	8.06	-	<0.025	<0.0000011
	100	28-Nov-06	-	9.31	-	<0.025	<0.0000094
	150	28-Nov-06	-	6.69 J	-	<0.025	0.000035
	200	29-Nov-06	-	8.93	-	<0.025	<0.0000011

TABLE 4
SUMMARY OF
EMERGING CHEMICALS IN SOIL

Additional Site Assessment

Former Weber Aircraft Facility
Burbank, California

Well ID	Depth (ft)	Date Sampled	Total Cyanide	pH	Perchlorate	1,4 - Dioxane	1,2,3 - TCP
Analytical Reporting Units			mg/kg	pH units	mg/kg	mg/kg	mg/kg
USEPA Region 9 PRGs Residential Soil (mg/kg)			1,200	NL	7.8	18*	0.034
BM-7	5	3-Dec-06	-	-	-	-	-
	10	3-Dec-06	-	-	-	-	-
	15	3-Dec-06	-	-	-	<0.025	<0.0000096
	20	4-Dec-06	-	-	-	-	-
	25	4-Dec-06	-	-	-	<0.025	<0.0000097
	30	4-Dec-06	-	-	-	-	-
	35	4-Dec-06	-	-	-	<0.025	<0.0000088
	50	4-Dec-06	-	-	-	-	-
	100	4-Dec-06	-	-	-	<0.025	<0.0000088
	150	5-Dec-06	-	-	-	<0.025	<0.0000082
	200	5-Dec-06	-	-	-	-	-
BM-8	5	2-Dec-06	<0.50	11.0	-	-	-
	10	2-Dec-06	<0.50	8.41	-	-	-
	15	2-Dec-06	<0.50	8.42	-	<0.025	<0.0000094
	20	2-Dec-06	<0.50	7.88	-	-	-
	25	2-Dec-06	<0.50	7.35	-	-	-
	30	2-Dec-06	-	7.39	-	<0.025	<0.0000099
	35	2-Dec-06	-	7.93	-	-	-
	50	2-Dec-06	-	7.79	-	<0.025	<0.000010
	115	2-Dec-06	-	7.56	-	-	-
	150	5-Dec-06	-	6.97	-	<0.025	<0.000010
	200	5-Dec-06	-	7.60	-	<0.025	<0.000010
BM-9	5	1-Dec-06	<0.50	10.4	-	-	-
	10	1-Dec-06	<0.50	8.92	-	-	-
	15	1-Dec-06	<0.50	8.73	-	<0.025	-
	20	1-Dec-06	<0.50	8.76	-	-	0.000045
	25	1-Dec-06	<0.50	8.79	-	-	-
	30	1-Dec-06	-	8.42	-	<0.025	<0.0000094
	35	1-Dec-06	-	8.46	-	-	-
	50	1-Dec-06	-	8.74	-	<0.025	<0.0000084
	100	1-Dec-06	-	9.07	-	<0.025	<0.0000087
	150	2-Dec-06	-	8.36	-	<0.025	0.000017
	200	4-Dec-06	-	7.28 J	-	<0.025	0.000011
BM-10	5	17-Dec-06	<0.50	8.42 J	-	-	-
	10	17-Dec-06	<0.50	8.26 J	-	-	-
	15	17-Dec-06	<0.50	9.44 J	-	<0.025	<0.000010
	20	17-Dec-06	<0.50	9.13 J	-	-	-
	25	17-Dec-06	<0.50	9.23 J	-	-	-
	30	17-Dec-06	-	8.96 J	-	<0.025	<0.0000092
	35	17-Dec-06	-	9.06 J	-	-	-
	50	17-Dec-06	-	9.4 J	-	<0.025	<0.0000090
	100	17-Dec-06	-	8.82 J	-	<0.025	<0.0000094
	150	17-Dec-06	-	7.38 J	-	<0.025	<0.0000079 J
	200	18-Dec-06	-	8.41	-	<0.025	<0.0000077

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EMERGING CHEMICALS IN SOIL**

Additional Site Assessment

**Former Weber Aircraft Facility
Burbank, California**

Well ID	Depth (ft)	Date Sampled	Total Cyanide	pH	Perchlorate	1,4 - Dioxane	1,2,3 - TCP
Analytical Reporting Units			mg/kg	pH units	mg/kg	mg/kg	mg/kg
USEPA Region 9 PRGs Residential Soil (mg/kg)			1,200	NL	7.8	18*	0.034
BM-11	5	17-Dec-06	<0.50	8.7 J	-	-	-
	10	17-Dec-06	<0.50	8.83 J	-	-	-
	15	17-Dec-06	<0.50	8.58 J	-	<0.025	<0.000010
	20	17-Dec-06	<0.50	8.6 J	-	-	-
	25	17-Dec-06	<0.50	8.6 J	-	-	-
	30	17-Dec-06	-	8.35 J	-	<0.025	<0.000014
	35	17-Dec-06	-	8.58	-	-	-
	50	17-Dec-06	-	8.95 J	-	<0.025	<0.000010
	100	17-Dec-06	-	8.38 J	-	<0.025	<0.000097
	150	17-Dec-06	-	8.11 J	-	<0.025	<0.000091
	200	18-Dec-06	-	8.25	-	<0.025	<0.000093
BM-12	5	14-Dec-06	<0.50	7.83	-	-	-
	10	14-Dec-06	<0.50	7.76	-	-	-
	15	14-Dec-06	<0.50	7.51	-	<0.025	<0.000081
	20	14-Dec-06	<0.50	7.73	-	-	-
	25	14-Dec-06	<0.50	7.64	-	-	-
	30	14-Dec-06	-	7.68	-	<0.025	0.000014
	35	14-Dec-06	-	7.70 J	-	-	-
	50	14-Dec-06	-	8.02 J	-	<0.025	<0.000095
	100	15-Dec-06	<0.50	8.38	-	<0.025	<0.000099
	150	15-Dec-06	<0.50	8.27	-	<0.025	<0.000085
	200	16-Dec-06	-	9.55	-	<0.025	<0.000095
BM-14	5	14-Nov-06	-	-	<0.040	-	-
	15	14-Nov-06	-	-	<0.040	-	-
	25	14-Nov-06	-	-	<0.040	-	-
	50	14-Nov-06	-	-	<0.040	-	-
	100	14-Nov-06	-	-	<0.040	-	-
	150	15-Nov-06	-	-	<0.040	-	-
	200	16-Nov-06	-	-	-	-	-
BM-15	5	30-Nov-06	-	-	-	-	-
	10	30-Nov-06	-	-	-	-	-
	15	30-Nov-06	-	-	-	<0.025	<0.000093
	20	30-Nov-06	-	-	-	-	-
	25	30-Nov-06	-	-	-	-	-
	30	30-Nov-06	-	-	-	<0.025	<0.000095
	35	30-Nov-06	-	-	-	-	-
	50	1-Dec-06	-	-	-	<0.025	<0.000093
	100	1-Dec-06	-	-	-	<0.025	<0.000097
	150	1-Dec-06	-	-	-	<0.025 J	<0.000011
	200	1-Dec-06	-	-	-	<0.025	<0.000010
BM-16	5	12-Dec-06	-	-	<0.040	-	-
	20	12-Dec-06	-	-	<0.040	-	-
	30	12-Dec-06	-	-	<0.040	-	-
	50	12-Dec-06	-	-	<0.040	-	-
	100	13-Dec-06	-	-	<0.040	-	-
	150	13-Dec-06	-	-	<0.040	-	-
	200	14-Dec-06	-	-	<0.040	-	-

Notes:

1,2,3-TCP = 1,2,3-Trichloropropane
 NL = Not listed
 - = Not analyzed
 < = Concentrations are below detection limits
 * = Value obtained from OEHA, 2005
 mg/kg = Milligrams per kilogram

Qualifiers:

J = Qualified as estimated during data review

TABLE 5
SUMMARY OF
DIOXINS/FURANS IN SOIL

Additional Site Assessment

Former Weber Aircraft Facility
Burbank, California

Boring ID	Depth (feet bgs)	2,3,7,8-TCDD		2,3,7,8-TCDF		1,2,3,7,8-PeCDD		1,2,3,7,8-PeCDF		2,3,4,7,8-PeCDF		1,2,3,4,7,8-HxCDD		1,2,3,6,7,8-HxCDD		1,2,3,7,8,9-HxCDD		1,2,3,4,7,8-HxCDF		1,2,3,6,7,8-HxCDF		1,2,3,7,8,9-HxCDF		2,3,4,6,7,8-HxCDF		1,2,3,4,6,7,8-HpCDD (TEF = 0.001)		1,2,3,4,6,7,8-HpCDF (TEF = 0.001)		1,2,3,4,7,8,9-HpCDF		OCDD (TEF = 0.001)		OCDF (TEF = 0.001)		TOTAL TCDD		TOTAL TCDF		TOTAL PeCDD		TOTAL PeCDF		TOTAL HxCDD		TOTAL HxCDF		TOTAL HpCDD		TOTAL HpCDF		Total 2,3,7,8-TCDD Equivalent
BM-14	5	0.0725	U	0.0632	U	0.0905	U	0.0142	U	0.129	U	0.147	U	0.192	U	0.208	U	0.107	U	0.104	U	0.129	U	0.124	U	0.135	U	0.0837	U	0.0757	U	0.322	U	0.32	U	0.0725	U	0.0632	U	0.0905	U	0.142	U	0.208	U	0.129	U	0.135	U	0.0837	U	0.00000
BM-14	25	0.0771	U	0.0666	U	0.0704	U	0.164	U	0.151	U	0.174	U	0.227	U	0.243	U	0.065	U	0.0624	U	0.0771	U	0.0716	U	0.162	U	0.0567	U	0.0555	U	0.349	U	0.344	U	0.0771	U	0.0666	U	0.0704	U	0.164	U	0.243	U	0.0771	U	0.162	U	0.0576	U	0.00000
BM-14	50	0.0922	U	0.0538	U	0.0516	U	0.124	U	0.118	U	0.112	U	0.149	U	0.161	U	0.0586	U	0.0567	U	0.0691	U	0.0679	U	0.136	U	0.0687	U	0.0614	U	0.229	U	0.355	U	0.0972	U	0.0538	U	0.0516	U	0.124	U	0.161	U	0.0691	U	0.136	U	0.0687	U	0.00000
BM-14	100	0.0604	U	0.0656	U	0.0892	U	0.0825	U	0.0825	U	0.118	U	0.156	U	0.165	U	0.064	U	0.0682	U	0.0793	U	0.0754	U	0.119	U	0.0561	U	0.0553	U	0.226	U	0.255	U	0.0604	U	0.0656	U	0.0767	U	0.0692	U	0.165	U	0.0793	U	0.119	U	0.0583	U	0.00000
BM-14	150	0.0411	U	0.0226	U	0.0389	U	0.0316	U	0.0309	U	0.0805	U	0.104	U	0.112	U	0.0605	U	0.0593	U	0.0722	U	0.0716	U	0.0651	U	0.0403	U	0.0363	U	0.294	U	0.0888	U	0.0411	U	0.0226	U	0.0389	U	0.0324	U	0.112	U	0.0722	U	0.0651	U	0.0403	U	0.00000
BM-14	200	0.038	U	0.0201	U	0.0337	U	0.0335	U	0.0305	U	0.0761	U	0.0761	U	0.102	U	0.0577	U	0.0565	U	0.0653	U	0.0651	U	0.0934	U	0.0462	U	0.0433	U	0.226	U	0.0935	U	0.038	U	0.0201	U	0.0337	U	0.0335	U	0.102	U	0.0653	U	0.0934	U	0.0462	U	0.00000
BM-16	5	0.0424	U	0.0275	U	0.0967	U	0.0702	U	0.0619	U	0.0977	U	0.128	U	0.133	U	0.0519	U	0.051	U	0.0573	U	0.0581	U	0.269	U	0.107	U	0.102	U	2.280	J	0.243	U	0.0424	U	0.0275	U	0.0967	U	0.0702	U	0.133	U	0.0581	U	0.269	U	0.107	U	0.00228
BM-16	25	0.0732	U	0.0309	U	0.0584	U	0.0969	U	0.0855	U	0.109	U	0.139	U	0.144	U	0.0648	U	0.0617	U	0.0736	U	0.0749	U	0.184	U	0.0776	U	0.0711	U	1.87	J	0.186	U	0.0732	U	0.0309	U	0.0584	U	0.0969	U	0.144	U	0.0749	U	0.184	U	0.0776	U	0.00187
BM-16	50	0.0451	U	0.0346	U	0.0675	U	0.079	U	0.0718	U	0.115	U	0.152	U	0.158	U	0.0545	U	0.051	U	0.0583	U	0.0608	U	0.195	U	0.0834	U	0.0611	U	1.35	J	0.123	U	0.0451	U	0.0346	U	0.0675	U	0.079	U	0.158	U	0.0608	U	0.195	U	0.0834	U	0.00135
BM-16	100	0.0471	U	0.0343	U	0.0773	U	0.124	U	0.104	U	0.0907	U	0.124	U	0.13	U	0.0549	U	0.0521	U	0.0594	U	0.0626	U	0.16	U	0.0582	U	0.0554	U	1.16	J	0.141	U	0.0471	U	0.0343	U	0.0773	U	0.124	U	0.13	U	0.0626	U	0.16	U	0.0582	U	0.00116
BM-16	150	0.0495	U	0.0446	U	0.0626	U	0.0603	U	0.0504	U	0.113	U	0.151	U	0.157	U	0.0464	U	0.0431	U	0.0518	U	0.0496	U	0.163	U	0.0586	U	0.0563	U	0.708	U	0.244	U	0.0495	U	0.0446	U	0.0626	U	0.0603	U	0.157	U	0.0518	U	0.163	U	0.0586	U	0.00000
BM-16	200	0.0548	U	0.0286	U	0.0632	U	0.05	U	0.046	U	0.119	U	0.153	U	0.159	U	0.052	U	0.0475	U	0.0568	U	0.0544	U	0.207	U	0.0639	U	0.0583	U	1.1	J	0.173	U	0.0548	U	0.0286	U	0.0632	U	0.05	U	0.159	U	0.0568	U	0.207	U	0.0639	U	0.00110
MW-4A	5	0.0869	U	0.0848	U	0.0756	U	0.107	U	0.0938	U	0.169	U	0.222	U	0.229	U	0.0531	U	0.0518	U	0.0585	U	0.0608	U	0.222	U	0.0525	U	0.0518	U	0.348	U	0.264	U	0.0869	U	0.0848	U	0.0756	U	0.107	U	0.229	U	0.0608	U	0.222	U	0.0527	U	0.00000
MW-4A	25	0.0753	U	0.0878	U	0.0484	U	0.131	U	0.116	U	0.131	U	0.168	U	0.173	U	0.056	U	0.0524	U	0.0591	U	0.0613	U	0.167	U	0.0578	U	0.0603	U	0.315	U	0.329	U	0.0753	U	0.0878	U	0.0484	U	0.131	U	0.173	U	0.0613	U	0.167	U	0.0603	U	0.00000
MW-4A	50	0.0903	U	0.0565	U	0.042	U	0.117	U	0.111	U	0.165	U	0.228	U	0.233	U	0.0443	U	0.042	U	0.0517	U	0.051	U	0.129	U	0.0636	U	0.0697	U	0.296	U	0.321	U	0.0903	U	0.0565	U	0.042	U	0.117	U	0.233	U	0.0517	U	0.129	U	0.0697	U	0.00000
MW-4A	100	0.0578	U	0.0572	U	0.0655	U	0.111	U	0.105	U	0.154	U	0.207	U	0.217	U	0.0909	U	0.0477	U	0.0553	U	0.0564	U	0.131	U	0.0716	U	0.0706	U	0.33	U	0.319	U	0.0578	U	0.0572	U	0.0655	U	0.111	U	0.217	U	0.1	U	0.131	U	0.0723	U	0.00000
MW-4A	150	0.0522	U	0.0439	U	0.0705	U	0.0711	U	0.0631	U	0.0746	U	0.0995	U	0.104	U	0.05	U	0.0501	U	0.0583	U	0.0603	U	0.106	U	0.0569	U	0.0594	U	0.306	U	0.217	U	0.0522	U	0.0439	U	0.0705	U	0.0711	U	0.104	U	0.0603	U	0.106	U	0.0599	U	0.00000
MW-4A	200	0.0611	U	0.0397	U	0.0491	U	0.0923	U	0.0827	U	0.128	U	0.176	U	0.181	U	0.0575	U	0.059	U	0.0736	U	0.071	U	0.189	U	0.06	U	0.0663	U	0.29	U	0.311	U	0.0611	U	0.0397	U	0.0491	U	0.0923	U	0.181	U	0.0736	U	0.189	U	0.0663	U	0.00000

Notes:

Shading for presentation purposes only
All sample results in picograms per gram (pg/g)
bgs - below ground surface
Total 2,3,7,8-TCDD equivalent calculated by multiplying the toxicity equivalency factor by the detected concentration.
Toxicity Equivalency Factors (TEF) represent the WHO/98 values from Table 9-2 of USEPA's December 2003
NAS Review Draft Exposure and Human Health Reassessment of 2,3,7,8-Tetrachlorodibenzo-p-Dioxin (TCDD)
and Related Compounds (NCEA-1-0836).
MW-4A-25 = Poor replication with field duplicate, DUP-E
Qualifiers:
U = Result below detection limit
J = Analyte concentration is below calibration range

OGHHA CHSSL for TCDD Equivalent 4.6

**TABLE 6
SUMMARY OF
VOLATILE ORGANIC COMPOUNDS IN SOIL VAPOR**

Additional Site Assessment

**Former Weber Aircraft Facility
Burbank, California**

Well ID	Depth (ft)	Date Sampled	Purge Volume	1,1-DCE	Freon 113	cis-1,2 DCE	1,1,1-TCA	TCE	PCE
Analytical Reporting Units			cc	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
SVP-1	50	19-Jan-07	1,250	<1.0	<1.0	<1.0	<1.0	<1.0	2.0
	100	19-Jan-07	2,500	11	<1.0	<1.0	<1.0	30	6.8
	150	19-Jan-07	3,750	140	<4.0	<4.0	6.6	76	14
SVP-2	50	19-Jan-07	1,250	<1.0	<1.0	<1.0	<1.0	<1.0	6.4
	100	19-Jan-07	2,500	8.9	2.9	<1.0	<1.0	5.6	49
	150	19-Jan-07	3,750	110	10	<4.0	9.3	41	130
SVP-3	35	18-Jan-07	875	<1.0	<1.0	<1.0	<1.0	<1.0	40
	100	18-Jan-07	2,500	5.1	4.9	<1.0	<1.0	7.0	98
	150	18-Jan-07	3,750	190	100	<4.0	11	62	270
	200	18-Jan-07	5,000	290	95	<4.0	19	110	300
SVP-4	50	19-Jan-07	1,250	1.0	<1.0	<1.0	<1.0	<1.0	4.5
	100	19-Jan-07	2,500	13	<1.0	<1.0	<1.0	5.2	17
	200	19-Jan-07	5,000	150	7.3	<4.0	8.6	47	75
SVP-5	50	17-Jan-07	1,250	<1.0	<1.0	<1.0	<1.0	<1.0	37
	100	17-Jan-07	2,500	4.6	2.8	<1.0	<1.0	2.0	19
	150	17-Jan-07	3,750	130	84	<4.0	4.3	58	160
	200	17-Jan-07	5,000	290	74	<4.0	14	110	190
SVP-6	100	17-Jan-07	2,500	13	<1.0	<1.0	<1.0	4.2	5.8
	150	17-Jan-07	3,750	330	7.0	<4.0	19	81	16
	200	17-Jan-07	5,000	210	48	<4.0	8.0	89	59
SVP-7	50	18-Jan-07	1,250	<1.0	<1.0	<1.0	<1.0	<1.0	12
	100	18-Jan-07	2,500	9.9	4.4	<1.0	1.3	2.1	49
	150	18-Jan-07	3,750	360	140	<4.0	24	17	120
	200	18-Jan-07	500	340	76	<4.0	28	32	160

**TABLE 6
SUMMARY OF
VOLATILE ORGANIC COMPOUNDS IN SOIL VAPOR**

Additional Site Assessment

**Former Weber Aircraft Facility
Burbank, California**

Well ID	Depth (ft)	Date Sampled	Purge Volume	1,1-DCE	Freon 113	cis-1,2 DCE	1,1,1-TCA	TCE	PCE
Analytical Reporting Units			cc	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
SVP-8	35	18-Jan-07	875	<1.0	<1.0	<1.0	<1.0	<1.0	16
	50	18-Jan-07	1,875	<1.0	<1.0	<1.0	<1.0	<1.0	5.2
	75	18-Jan-07	1,875	<2.0	<2.0	<2.0	<2.0	<2.0	6.0
	150	18-Jan-07	3,750	83	35	<4.0	5.4	28	100
	200	18-Jan-07	5,000	440 J*	130 J*	<4.0	37 J*	210 J*	600 J*
SVP-9	50	17-Jan-07	250	1.7	1.1	<1.0	<1.0	1.1	8.7
	50	17-Jan-07	750	<1.0	<1.0	<1.0	<1.0	<1.0	41
	50	17-Jan-07	1,750	<1.0	<1.0	<1.0	<1.0	<1.0	52
	100	18-Jan-07	2,500	2.7	2.2	<1.0	<1.0	2.5	44 J*
	100-dup	18-Jan-07	2,560	3.0	2.3	<1.0	<1.0	1.7	19 J*
	150	18-Jan-07	3,750	280	150	<4.0	14	53	220
	200	18-Jan-07	5,000	260	69	2.6	20	140	290
SVP-10	50	18-Jan-07	1,250	<1.0	<1.0	<1.0	<1.0	<1.0	26
	100	18-Jan-07	2,500	4.3	4.1	<1.0	<1.0	1.3	36
	150	18-Jan-07	3,750	180	73	<4.0	13	27	150
	150-dup	18-Jan-07	3,810	200	81	<4.0	13	26	140
	200	18-Jan-07	5,000	470	150	<4.0	46	85	220
SVP-11	25	19-Jan-07	625	<1.0	<1.0	<1.0	<1.0	<1.0	12
	50	19-Jan-07	1,250	<1.0	<1.0	<1.0	<1.0	<1.0	14
	50-dup	19-Jan-07	1,310	<1.0	<1.0	<1.0	<1.0	<1.0	9.9
	75	19-Jan-07	1,875	<1.0	<1.0	<1.0	<1.0	<1.0	5.4
	150	19-Jan-07	3,750	91	21	<4.0	4.9	59	170
	200	19-Jan-07	5,000	180	43	<4.0	14	150	290
SVP-16	50	19-Jan-07	1,250	<1.0	<1.0	<1.0	<1.0	<1.0	2.9
	100	19-Jan-07	2,500	3.3	2.1	<1.0	<1.0	1.0	4.7
	150	19-Jan-07	3,750	<4.0	<4.0	<4.0	<4.0	5.1	18

Notes:

cc = Cubic Centimeter
µg/L = Micrograms per litre
1,1-DCE = 1,1-dichloroethene
cis-1,2-DCE = cis-1,2-dichloroethene
1,1,1-TCA = 1,1,1-trichloroethane
TCE = trichloroethene
PCE = tetrachloroethene

Qualifiers:

J* = Qualified as estimate during QC data review

Appropriate screening levels for soil gas data collected from depths greater than 35 feet are not presently available

TABLE 7
SUMMARY OF
METALS IN GROUNDWATER

Additional Site Assessment

Former Weber Aircraft Facility
Burbank, California

Well ID Date Sampled		Title 22/CAM 17 Metals (6010 B)																				6010B		7470A	
		Ag	As	Ba	Be	Ca	Cd	Co	Cr	Cr 6 ⁺ (7199)	Cu	K	Mg	Mo	Na	Ni	Pb	Sb	Se	Tl	V	Zn	Fe dissolved	Mn dissolved	Hg
Analytical Reporting Units		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
California MCLs (µg/L)		100	50	1,000	4	No MCL	5	730***	50	50	1,300**	No MCL	No MCL	180***	No MCL	100	15*	6	50	2	36***	5,000	300	50	2
SW-1	21-Dec-04	NA	NA	NA	NA	NA	NA	NA	3 (a)	1.4 (b)	4 (a)	NA	NA	NA	NA	5 (a)	<5 (a)	NA	NA	NA	NA	114 (a)	NA	NA	NA
	12-Jan-06	<10	<10	85	U	62,500	<5.0	<50	96	5.2	<25	3,000 B	15,600	17 B	99,300	8.7 B	3.1 B	<60	<5.0	<10	12 B	33	<100	4.2 B	<0.2
	26-Apr-06	<1.0	1.4 J	143 J	0.13 B,J	68,000 J	<1.0	8.5 J	174	5.9	33.8 J	2,890	16,300 J	8.9	92,400 J	67.0	57.1 J	<2.0	1.1 J	<1.0	30.5	206 J	<50	2.7	<0.2
	18-Jul-06	<10	9.9	200	<4.0	66,000	<5.0	13	1,600	5.5	72	5,800	20,000	37	100,000	140	55	<10	11	<10	67	280	<40	<20	<0.2
	17-Oct-06	<10	<10	85	<4.0	60,000	<5.0	<10	23	4.9	<10	2,800	15,000	<20	92,000	12	7.3	<10	<10	<10	16	13	<40	<20	<0.2
	17-Jan-07	<10	<10	100	<4.0	66,000	<5.0	<10	220	4.9	20	3,300	17,000	<20	100,000	25	20	<10	<10	<10	21	1,400	<40	20	<0.2
SW-2	20-Dec-04	NA	NA	NA	NA	NA	NA	NA	9 (a)	6.7 (b)	4 (a)	NA	NA	NA	NA	4 (a)	<5 (a)	NA	NA	NA	NA	93 (a)	NA	NA	NA
	12-Jan-06	<10	9.8 B	88	U	67,500	<5.0	<50	14	12	<25	4,100 B	21,800	11 B	59,500	<40	<5.0	<0.060	<5.0	<10	8.4 B	11 B	<100	9.5 B	<0.2
	26-Apr-06	<1.0	1.1 J	88 J	<1.0	58,700 J	<1.0	1.0 J	26.5	12	3.4 J	4,320	22,400 J	11.6	63000 J	6.2	6.9 J	0.23 B,J	1.1 J	<1.0	9.3	298 J	<50	7.6	<0.2
	19-Jul-06	<10	<5.0	96	<4.0	63,000	<5.0	<10	26	8.8	<10	4,700	22,000	<20	74,000	<10	5.8	<10	<10	<10	13	180	<40	<20	<0.2
	17-Oct-06	<10	<10	91	<4.0	63,000	<5.0	<10	14	10	<10	4,000	21,000	<20	60,000	<10	<5.0	<10	<10	<10	<10	49	<40	<20	<0.2
	17-Jan-07	<10	<10	220	<4.0	84,000	<5.0	15	130	10	35	7,200	30,000	<20	67,000	52	37	<10	<10	<10	<10	42	260	<40	<20
SW-3	21-Dec-04	NA	NA	NA	NA	NA	NA	NA	<10 (a)	0.4 (b)	4 (a)	NA	NA	NA	NA	43 (a)	<5 (a)	NA	NA	NA	NA	86 (a)	NA	NA	NA
	13-Jan-06	<10	<10	120	U	87,600	<5.0	<50	78	80	<25	5,000	30,200	9.5 B	63,600	9.2 B	<5.0	<60	<5.0	<10	4.2 B	21	U*	7.2 B	<0.2
	26-Apr-06	<1.0	1.7 J	160 J	<1.0	87,100 J	<1.0	5.8 J	663	210	18.4 J	5,260	30,600 J	12.1	58,700 J	110	3.7 J	0.30 B,J	1.0 J	<1.0	8.0	419 J	28.0 B	23.3	<0.2
	18-Jul-06	<10	<5.0	140	<4.0	85,000	<5.0	<10	770	580	18	6,200	33,000	<20	56,000	62	6.6	<10	<10	<10	12	2,200	<40	27	<0.2
	17-Oct-06	<10	<10	140	<4.0	85,000	<5.0	<10	300	250	11	4,900	31,000	<20	49,000	48	<5.0	19	<10	<10	12	220	<40	<20	<0.2
	17-Jan-07	<10	<10	140	<4.0	87,000	<5.0	<10	640	210	13	5,700	33,000	<20	50,000	49	10	<10	<10	<10	12	1,100	<40	20	<0.2
SW-4 ¹	21-Dec-04	NA	NA	NA	NA	NA	NA	NA	6 (a)	2.2 (b)	5 (a)	NA	NA	NA	NA	9 (a)	<5 (a)	NA	NA	NA	NA	75 (a)	NA	NA	NA
	13-Jan-06	<10	<10	110	U	75,400	<5.0	<50	33	13	5.5 B	3,700 B	22,600	7.0 B	38,800	14 B	8.8	<60	<5.0	<10	9.5 B	99	<100	2.9 B	<0.2
	27-Apr-06	<1.0	1.1 J	140 J	<1.0	82,900 J	0.24 B	3.1 J	88.7	50	10.0 J	4,200	26,400 J	6.5	41,800 J	22.7	13.3 J	0.46 B,J	1.2 J	<1.0	11.1	346 J	25.0 B	4.2	NR
	19-Jul-06	<10	<5.0	120	<4.0	68,000	<5.0	<10	250	40	36	11,000	30,000	<20	59,000	79	28	<10	<10	<10	19	1,900	<40	<20	<0.2
	18-Oct-06	<10	<10	140	<4.0	91,000	<5.0	<10	100	240	<10	4,800	33,000	<20	52,000	54	<5.0	<10	<10	<10	<10	190	<40	<20	<0.2
MW-4A ¹	21-Feb-07	<10	<10	57	<4.0	88,000 B-1	<5.0	<10	8.4	5.7	<10	4,700	26,000	<20	49,000	<10	<5.0	<10	<10	<10	<10	<20	<40	56	<0.2
SW-5	20-Dec-04	NA	NA	NA	NA	NA	NA	NA	11 (a)	9.6 (b)	3 (a)	NA	NA	NA	NA	70 (a)	4 (a)	NA	NA	NA	NA	96 (a)	NA	NA	NA
	13-Jan-06	<10	<10	140	U	88,500	<5.0	<50	7.6 B	4.6	<25	4,800 B	30,700	8.7 B	53,100	22 B	<5.0	<60	<5.0	<10	4.4 B	87	<100	17	<0.2
	27-Apr-06	<1.0	1.8 J	178 J	<1.0	94,100 J	<1.0	6.1 J	498	7.4	17.6 J	5,270	33,000 J	10.2	54,800 J	79.1	6.7 J	0.24 B,J	1.0 J	<1.0	9.0	386 J	<50.0	22.2	<0.2
	19-Jul-06	<10	6.2	120	<4.0	82,000	<5.0	<10	100	22	<10	5,700	33,000	<20	52,000	16	5.4	<10	<10	<10	<10	1,200	<40	<20	<0.2
	18-Oct-06	<10	<10	140	<4.0	92,000	<5.0	<10	12	12	<10	4,800	34,000	<20	52,000	33	<5.0	<10	<10	<10	<10	64	<40	23	<0.2
	17-Jan-07	<10	<10	170	<4.0	98,000	<5.0	<10	350	13	12	5,700	34,000	<20	54,000	50	8.2	<10	<10	<10	<10	15	1,600	<40	69
MW-6 ²	20-Feb-07	<10	<10	31	<4.0	66,000	<5.0	<10	<5.0	3.6	<10	4,800	20,000	<20	50,000	<10	<5	<10	<10	<10	<10	<20	<40	140	<0.2
MW-7 ²	21-Feb-07	<10	<10	48	<4.0	91,000	<5.0	<10	5.1	<2.0	<10	6,300	32,000	<20	58,000	<10	<5	<10	<10	<10	<10	<20	<40	180	<0.2

Notes:

Bold Results in excess of MCL are in bold. Analyses for the current quarter are italicized.
1 = MW-4A installed January 7, 2007. SW-4 Decommissioned January 2007.
2 = MW-6 and MW-7 installed December 2007

NR = Not reported.
NA = Not analyzed.
µg/L = Micrograms per liter

Methods and MCLs:

(7199) Analytical Method 7199
* = The lead action level is exceeded if the concentration of lead in more than 10 percent of tap water samples collected during any monitoring period conducted in accordance with Article 6 is greater than 15 ug/L.
** = The copper action level is exceeded if the concentration of copper in more than 10 percent of tap water samples collected during any monitoring period conducted in accordance with Article 6 is greater than 13 ug/L.
*** = No MCL listed, USEPA Region 9 PRG (October 2004) value for tap water is reported.
(a) = Test number 200.7 used for detection in 2004 Laboratory results.
(b) = Test number 218.6 used for detection in 2004 Laboratory results.

Comparison values used for Silver, Zinc, Iron, and Manganese represent secondary MCLs

Laboratory Qualifiers

B-1 = Analyte was detected in the associated method blank. Analyte concentration in sample is greater than 10x the concentration found in the method blank.
B = Estimated result. Result is less than reporting limit.
U = False positive and qualified as undetected due to blank contamination.
J = Method blank contamination. The associated method blank contains the target analyte at a reportable level.

TABLE 8
SUMMARY OF VOLATILE ORGANIC COMPOUNDS
IN GROUNDWATER

Additional Site Assessment

Former Weber Aircraft Facility
Burbank, California

Well ID	Date Sampled	PCE	TCE	1,1,1-TCA	1,1,2-TCA	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	1,1,2-TCFE	1,2,3-TCPs	VC	Chloroform	MC	Chlorobenzene	DBCM	BDCM	Benzene	Toluene	Ethylbenzene	Xylenes(total)	Acetone
Analytical Reporting Units		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
California MCL (µg/L)		5	5	200	5	5	0.5	6	6	10	1,200	0.0056**	0.5	80	5**	70**	0.13**	0.18**	1.0	150	300	1750	5,500**
SW-1	21-Dec-04	<5	<5	<5	NA	NA	NA	<5	<5	NA	NA	NA	NA	2.1 J	NA	NA	NA	NA	NA	<5.0	NA	NA	NA
	12-Jan-06	<0.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.057	<1.0	2.2	<1.0	<1.0	<1.0	U	<1.0	<1.0	<1.0	<10	
	26-Apr-06	<1.0	0.74 J	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	<1.0	1.9	<1.0	<1.0	<1.0	0.33 J	0.48 J	2.3	0.33 J	2.3	
	18-Jul-06	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	<0.005	<1.1	2.2	<5.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	
	17-Oct-06	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	NA	<0.005	<0.50	1.8	<5.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	
	17-Jan-07	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	NA	<0.005	<0.50	1.9	<5.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	
SW-2	20-Dec-04	<5	2.1 J	<5	NA	NA	NA	<5	<5	NA	NA	NA	NA	<0.5	NA	NA	NA	NA	NA	<5.0	NA	NA	NA
	12-Jan-06	0.92 J	9.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NR	<1.0	U	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	
	26-Apr-06	2.0	14	<1.0	<1.0	<1.0	<1.0	0.74 J	<1.0	<1.0	<1.0	NA	<1.0	0.65 J	<1.0	<1.0	<1.0	<1.0	2.3	13	2.0	14	
	19-Jul-06	2.1	13	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	NA	<0.005	<0.50	<1.0	<5.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	
	17-Oct-06	<1.0	6.6	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	NA	<0.005	<0.50	<1.0	<5.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	
	17-Jan-07	<1.0	5.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	NA	<0.005	<0.50	<1.0	<5.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	
SW-3	21-Dec-04	18	6	1.1 J	NA	NA	NA	3.5 J	<5	NA	NA	NA	NA	<0.5	NA	NA	NA	NA	NA	2.1 J	NA	NA	NA
	13-Jan-06	280	91	12	<3.6	1.9 J	<3.6	83	<3.6	<3.6	4.0	NR	<3.6	3.3 J	<3.6	<3.6	<3.6	<3.6	<3.6	<10	<3.6	<36	
	26-Apr-06	250	82	10	<4.0	1.7 J	<4.0	58	<4.0	<4.0	2.5 J	NA	<4.0	2.2 J	<4.0	<4.0	<4.0	<4.0	3.2 J	18	3.8 J	24	
	18-Jul-06	270	120	9.9	<5.0	<5.0	<2.5	50	<5.0	<5.0	NA	<0.005	<2.5	<5.0	<25	<5.0	<5.0	<5.0	<2.5	<5.0	<5.0	<5.0	
	17-Oct-06	210	130	7.8	<5.0	<5.0	<2.5	48	<5.0	<5.0	NA	<0.005	<2.5	<5.0	<25	<5.0	<5.0	<5.0	<2.5	<5.0	<5.0	<5.0	
	17-Jan-07	160	120	5.9	<1.0	1.4	1.0	28	<1.0	<1.0	NA	<0.005	<0.5	2.1	<5.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	
SW-4 ¹	21-Dec-04	804	1,200	12	NA	NA	NA	81	6.3	NA	NA	NA	NA	4.6 J	NA	NA	NA	NA	NA	51	NA	NA	NA
	13-Jan-06	43	1,600	<25	<25	<25	<25	29	8.3 J	<25	<25	NR	<25	<25	<25	<25	<25	<25	<25	<25	<25	<250	
	27-Apr-06	1,200	1,300	13 J	<17	<17	<17	94	<17	<17	<17	0.036	<17	<17	<17	<17	<17	<17	<17	10 J	<17	<170	
	19-Jul-06	740	790	<10	<10	<10	<5.0	62	<10	<10	<10	0.025	<5.0	<10	<50	<10	<10	<10	<5.0	<10	<10	NA	
	18-Oct-06	1,400	1,400	15	<1.0	1.7	4.8	140	6.7	<1.0	NA	0.032	<0.50	5.8	<5.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	
MW-4A ¹	21-Feb-07	10	1,300	<1.0	<1.0	6.8	<0.5	46	18	<1.0	NA	<0.005	<0.5	7	<5.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	
SW-5	20-Dec-04	227	42	2.2 J	NA	NA	NA	14	<5	NA	NA	NA	NA	1.5 J	NA	NA	NA	NA	NA	<5.0	NA	NA	NA
	13-Jan-06	250	46	4.2	<2.9	0.99 J	<2.9	14	<2.9	<2.9	<2.9	NR	<2.9	1.7 J	<2.9	<2.9	<2.9	<2.9	<2.9	<2.9	<2.9	<29	
	27-Apr-06	190	44	3.0	<2.5	<2.5	<2.5	15	<2.5	<2.5	<2.5	<0.005	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	4.5	20	2.5	<25	
	19-Jul-06	45	16	<1.0	<1.0	<1.0	<5.0	2.9	<1.0	<1.0	NA	<0.005	<0.50	<1.0	<5.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	NA	
	18-Oct-06	190	55	4.9	3.0	1.6	3.8	26	<1.0	<1.0	NA	<0.005	<0.50	1.4	<5.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<10	
	17-Jan-07	110	47	2.4	<1.0	<1.0	<0.5	2.9	<1.0	<1.0	NA	<0.005	<0.5	1.2	<5.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<10	
MW-6 ²	20-Feb-07	1.4	570	<1.0	<1.0	1.3	<0.5	21	2.7	<1.0	NA	<0.005	<0.5	1.7	<5.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<10	
MW-7 ³	21-Feb-07	20	15	<1.0	<1.0	<1.0	<0.5	4.8	<1.0	<1.0	NA	<0.005	<0.5	2.4	<5.0	<1.0	<1.0	<1.0	<50.	<1.0	<1.0	<1.0	

Chemical abbreviations:

PCE = Tetrachloroethene
TCE = Trichloroethene
1,1,1-TCA = 1,1,1-trichloroethane
1,1,2-TCA = 1,1,2-trichloroethane
1,1-DCA = 1,1-Dichloroethane
1,2-DCA = 1,2-Dichloroethane
1,1-DCE = 1,1-Dichloroethene
cis-1,2-DCE = Cis-1,2-Dichloroethene
Trans-1,2-DCE = Trans-1,2-Dichloroethene
1,1,2-TCFE = 1,1,2-Trichlorotrifluoroethane
1,2,3-TCP = 1,2,3-Trichloropropane
VC = Vinyl Chloride
MC = Methylene Chloride
DBCM = Dibromochloromethane
BDCM = Bromodichloromethane

Notes:

Results in excess of MCL are in bold.
MCL = Maximum Contaminant Level
< = Not detected at reporting limit.
NA = Not analyzed.
NR = Sample was collected as planned. Due to laboratory error, there are no 1,2,3-TCP results available for SW-2 through SW-5.
= 1,2,3-Trichloropropane analyzed by EPA Method 524 SIM
* = The results of the initial analysis for this sample were greater than the linear calibration range for the analyte and one or more analysis were performed using greater dilutions.
** = USEPA Region 9 PRG (October 2004) for tap water.
1 = MW-4A installed January 7, 2007. SW-4 Decommissioned January 2007.
2 = MW-6 installed December 2007.
3 = MW-7 installed December 2007.

Laboratory Qualifiers:

U = False positive and qualified as undetected due to blank contamination.
J = Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL).
B = Analyte detected in Method Blank.
R = The RPD exceeded the method control limit due to sample matrix effects.
L = the individual analyte QA/QC recoveries, however, were within acceptance limits.
Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits

**TABLE 9
SUMMARY OF EMERGING CHEMICALS
IN GROUNDWATER**

Additional Site Assessment

**Former Weber Aircraft Facility
Burbank, California**

Well ID	Date Sampled	360.1 ^{NOT}	300.0A					314.0	9030B/9034	8270 C (SIM)	1625 M
		Dissolved Oxygen	Chloride	Nitrite as (N)	Nitrate as (N)	Nitrate as (NO ₃)*	Sulfate	Perchlorate	Sulfides (total)	1,4 - Dioxane	NDMA
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
California MCL (µg/L)		No MCL	250,000**	10,000	10,000	45,000	250,000**	3.6 µg/L	No MCL	6.1 µg/L	0.0013 µg/L
SW-1	21-Dec-04	NA	NA	NA	NA	NA	NA	<4.0	NA	<2	NA
	12-Jan-06	8,100	49,100	<500 G	8,000	35,432	77,800	2.9 B	<4,000	<0.95	<0.002
	26-Apr-06	8,400 J	54,100	<100	8,300	36,761	85,700	2.7 B	<4,000	<1.0	<0.002
	18-Jul-06	4,800 J	52,000	<750 RL-1	7,800	34,546	80,000	<4.0	<1,000	<0.47	<0.0020
	17-Oct-06	5,000	51,000	<150	8,400	37,204	76,000	<4.0	<1,000	<0.50	<0.0020
	17-Jan-07	4,400	51,000	<150	8,500	37,647	77,000	<4.0	<1,000	2.9	<0.0020
SW-2	20-Dec-04	NA	NA	NA	NA	NA	NA	<4.0	NA	<2	NA
	12-Jan-06	6,900	43,800	<500 G	8,400	37,204	75,700	2.6 B	3,400 B	<0.95	<0.002
	26-Apr-06	7,400 J	40,300	<1,000	9,000	39,861	73,500	2.5 B	<4,000	<0.96	<0.002
	19-Jul-06	5,200 J	42,000	<150	7,000	31,003	74,000	<4.0	<1,000	<0.48	0.0028
	17-Oct-06	4,600	43,000	<150	8,100	35,875	78,000	<4.0	<1,000	<0.48	<0.0019
	17-Jan-07	4,700	44,000	<150	7,400	32,775	76,000	<4.0	<1,000	<0.47	<0.0019
SW-3	21-Dec-04	NA	NA	NA	NA	NA	NA	236	NA	<2	NA
	13-Jan-06	7,400	52,500	<500 G	11,000	48,719	81,000	2.3 B	<4,000	6.8	<0.002
	26-Apr-06	7,500	50,600	<100	10,800	47,833	83,800	4.1	<4,000	<1.0	<0.002
	18-Jul-06	5,100 J	45,000	<150	12,000	53,148	86,000	<4.0	<1,000	0.5	<0.0019
	17-Oct-06	5,100	45,000	<150	15,000	66,435	81,000	<4.0	<1,000	0.58	<0.0019
	17-Jan-07	5,600	49,000	<150	13,000	57,577	81,000	<4.0	<1,000	0.71	<0.0019
SW-4 ¹	21-Dec-04	NA	NA	NA	NA	NA	NA	<4.0	NA	14	NA
	13-Jan-06	6,700	43,000	<500 G	8,600	38,089	79,100	<4.0	<4,000	<0.95	<0.002
	27-Apr-06	7,000	37,600	<100	16,600	73,521	68,700	2.0 B	<4,000	110	<0.002
	19-Jul-06	3,300 J	35,000	<150	16,000	70,864	58,000	<4.0	<1,000	150	<0.0019
	18-Oct-06	4,600	32,000	<750	20,000	88,580	62,000	<4.0	<1,000	350	<0.0019
MW-4A ¹	21-Feb-07	4,300 HFT	55,000	<150	9,300	41,190	110,000	<4.0	<1,000	<0.5	<0.0020 A-01
SW-5	20-Dec-04	NA	NA	NA	NA	NA	NA	<4.0	NA	3.2	NA
	13-Jan-06	7,500	47,400	<500 G	9,700	42,961	89,600	<4.0	<4,000	<0.95	<0.002
	27-Apr-06	9,400 J	50,300	<100	10,100	44,733	95,400	<4.0	<4,000	4.7	<0.002
	19-Jul-06	3,600 J	46,000	<150	9,400	41,633	86,000	<4.0	<1,000	27	<0.0019
	18-Oct-06	4,900	32,000	<150	20,000	88,580	62,000	<4.0	<1,000	290	<0.0019
	17-Jan-07	5,400	49,000	<150	11,000	48,719	89,000	<4.0	<1,000	650 Z3	<0.0019
MW-6 ³	20-Feb-07	3,700	42,000	160	7,300	32,332	87,000	<4.0	<1,000	<0.51 RL4	<0.0020
MW-7 ⁴	21-Feb-07	3,700 HFT	53,000	<150	8,000	35,432	82,000	<4.0	<1,000	<0.5	0.0022

Notes:
Results in excess of MCL are in bold. Analyses for the current quarter are italicized.

NS = Not sampled
NL = Not listed
NA = Not analyzed
NDMA = N-Nitrosodimethylamine
* = Nitrate as NO₃ Converted from Nitrate as (N). (Nitrate as (N) µg/L) x 4.429 = Nitrate as NO₃ µg/L
1 = MW-4A installed January 7, 2007
2 = SW-4 Decommissioned January 2007
3 = MW-6 installed December 2007
4 = MW-7 installed December 2007

Laboratory Qualifiers:

HFT = The holding time for this test is immediate. It was analyzed in the laboratory as soon as possible after receipt.
A-01 = Batch had acceptable BS recoveries. Internal Standard for BSD was most likely double-spiked which made NDMA recovery appear to be low. BSD recovery seemed to be isolated incident and should not affect sample results.
RL1 = Reporting limit raised due to sample matrix effects
RL4 = Reporting limit raised due to insufficient sample volume.
Z3 = The sample required a dilution due to the nature of the sample matrix.
Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.
J = Estimated result. Samples run outside of 8-hour holding time.
B = Estimated result. Result is less than reporting limit.
G = Elevated reporting limit. The reporting limit is elevated due to matrix interference.

TABLE 10
SUMMARY OF DIOXINS/FURANS IN GROUNDWATER

Additional Site Assessment

Former Weber Aircraft Facility
Burbank, California

Well ID	Sample Date	2,3,7,8-TCDD		2,3,7,8-TCDF		1,2,3,7,8-PeCDD		1,2,3,7,8-PeCDF		2,3,4,7,8-PeCDF		1,2,3,4,7,8-HxCDD		1,2,3,6,7,8-HxCDD		1,2,3,7,8,9-HxCDD		1,2,3,4,7,8-HxCDF		1,2,3,6,7,8-HxCDF		1,2,3,7,8,9-HxCDF		2,3,4,6,7,8-HxCDF		1,2,3,4,6,7,8-HpCDD (TEF = 0.01)		1,2,3,4,6,7,8-HpCDF (TEF = 0.01)		1,2,3,4,7,8,9-HpCDF		OCDD (TEF = 0.001)		OCDF (TEF = 0.001)		TOTAL TCDD		TOTAL TCDF		TOTAL PeCDD		TOTAL PeCDF		TOTAL HxCDD		TOTAL HxCDF		TOTAL HpCDD		TOTAL HpCDF		Total 2,3,7,8-TCDD Equivalent
SW-3	17-Jan-07	1.02	U	1.03	U	2.23	U	2.23	U	2.12	U	2.29	U	3.02	U	3.19	U	0.825	U	0.742	U	0.881	U	0.872	U	2.24	U	1.49	U	1.89	U	4.41	U	4.08	U	1.02	U	1.03	U	2.23	U	2.23	U	3.19	U	0.95	U	2.24	U	1.89	U	0.000
MW-4A	21-Feb-07	1.28	U	1.38	U	1.31	U	2.39	U	2.16	U	2.04	U	2.55	U	2.73	U	1.06	U	0.88	U	1.06	U	0.996	U	2.34	U	1.54	U	2.08	U	5.29	U	4.84	U	1.28	U	1.38	U	1.31	U	2.39	U	2.73	U	1.06	U	2.34	U	2.08	U	0.000
SW-5	17-Jan-07	1.02	U	1.04	U	2.75	U	2.37	U	2.36	U	2.32	U	3.04	U	3.39	U	1.53	U	1.46	U	1.88	U	1.68	U	9.38	J	1.91	U	2.5	U	53.1		4.1	U	1.02	U	1.04	U	2.75	U	2.44	U	3.39	U	1.9	U	19.4	J	2.5	U	0.147
MW-6	20-Feb-07	1.5.2	U	0.901	U	1.46	U	1.31	U	1.18	U	2.51	U	3.31	U	3.52	U	1.12	U	0.997	U	1.4	U	1.26	U	2.47	U	2.28	U	2.86	U	3.09	U	4.61	U	1.52	U	0.901	U	1.46	U	1.31	U	3.52	U	1.4	U	2.47	U	2.86	U	0.000
MW-7	21-Feb-07	1.55	U	1.18	U	1.26	U	2.12	U	1.96	U	2.36	U	2.97	U	1.45	U	1.24	U	1.12	U	1.45	U	1.34	U	2.78	U	1.44	U	1.89	U	3.11	U	5.12	U	1.55	U	1.18	U	1.26	U	2.12	U	3.21	U	1.45	U	2.78	U	1.89	U	0.000
Rinsate-1	21-Feb-07	1.53	U	0.977	U	1.65	U	2.59	U	2.22	U	3.32	U	4.05	U	4.34	U	0.969	U	0.938	U	1.25	U	1.13	U	2.56	U	1.41	U	1.66	U	4.81	U	5.02	U	1.53	U	0.977	U	1.65	U	2.59	U	4.34	U	1.25	U	2.56	U	1.66	U	0.000

All sample results in picograms per gram (pg/L)

bgs - below ground surface

Total 2,3,7,8-TCDD equivalent calculated by multiplying the toxicity equivalency factor by the detected concentration.

Toxicity Equivalency Factors (TEF) represent the WHO/98 values from Table 9-2 of USEPA's December 2003

NAS Review Draft Exposure and Human Health Reassessment of 2,3,7,8-Tetrachlorodibenzo-p-Dioxin (TCDD)
and Related Compounds (NCEA-I-0836).

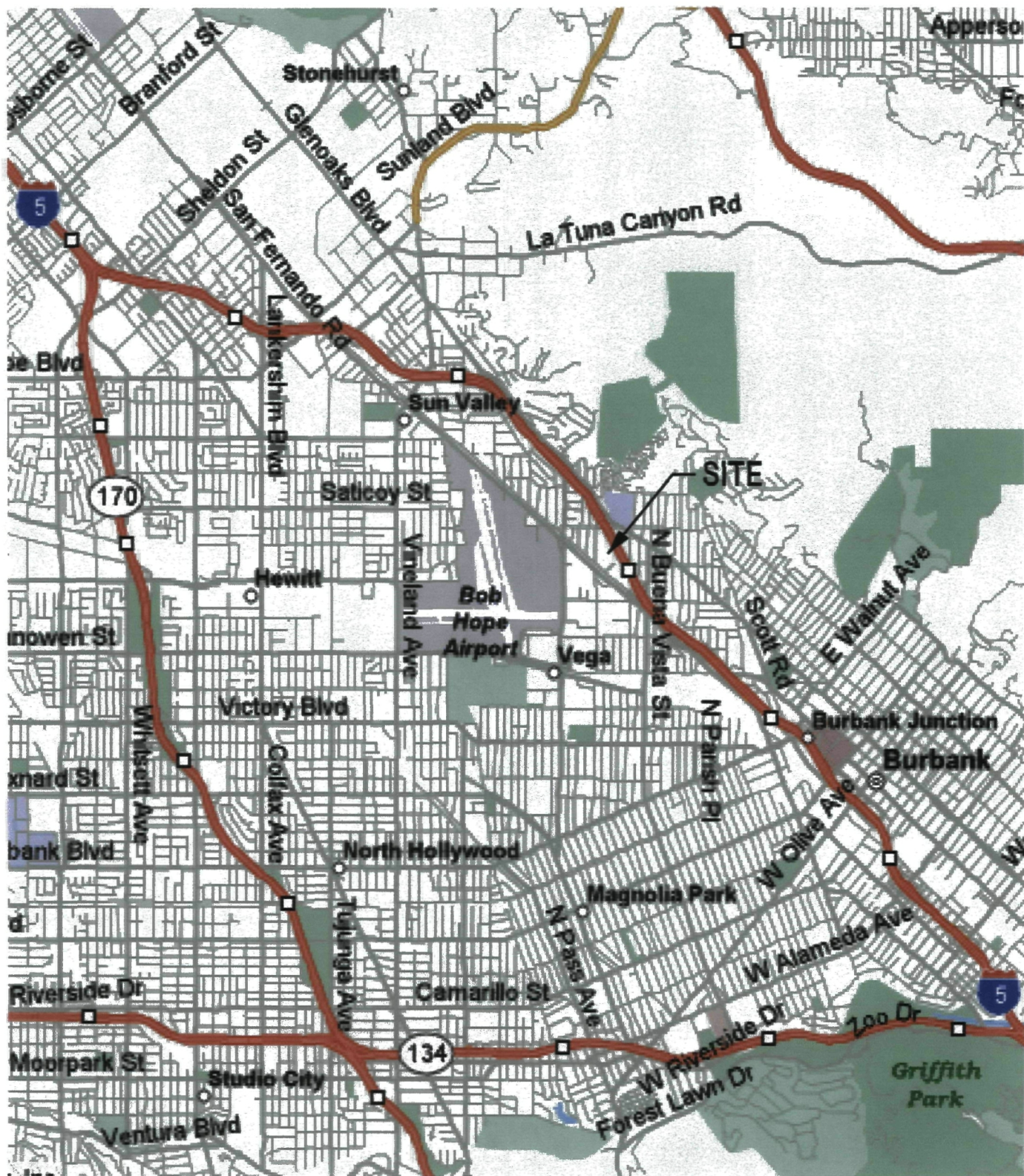
Qualifiers:

U = Result below detection limit

J = Analyte concentration is below calibration range

California MCL for TCDD Equivalent 30 pg/L

FIGURES



SOURCE: MAPQUEST, INC.

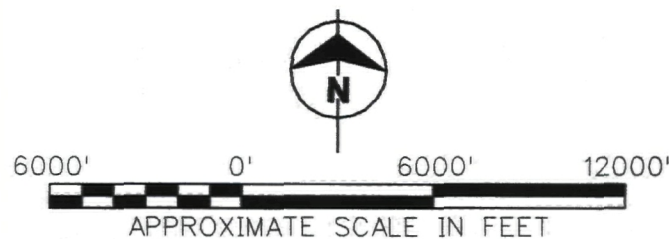


Figure 1

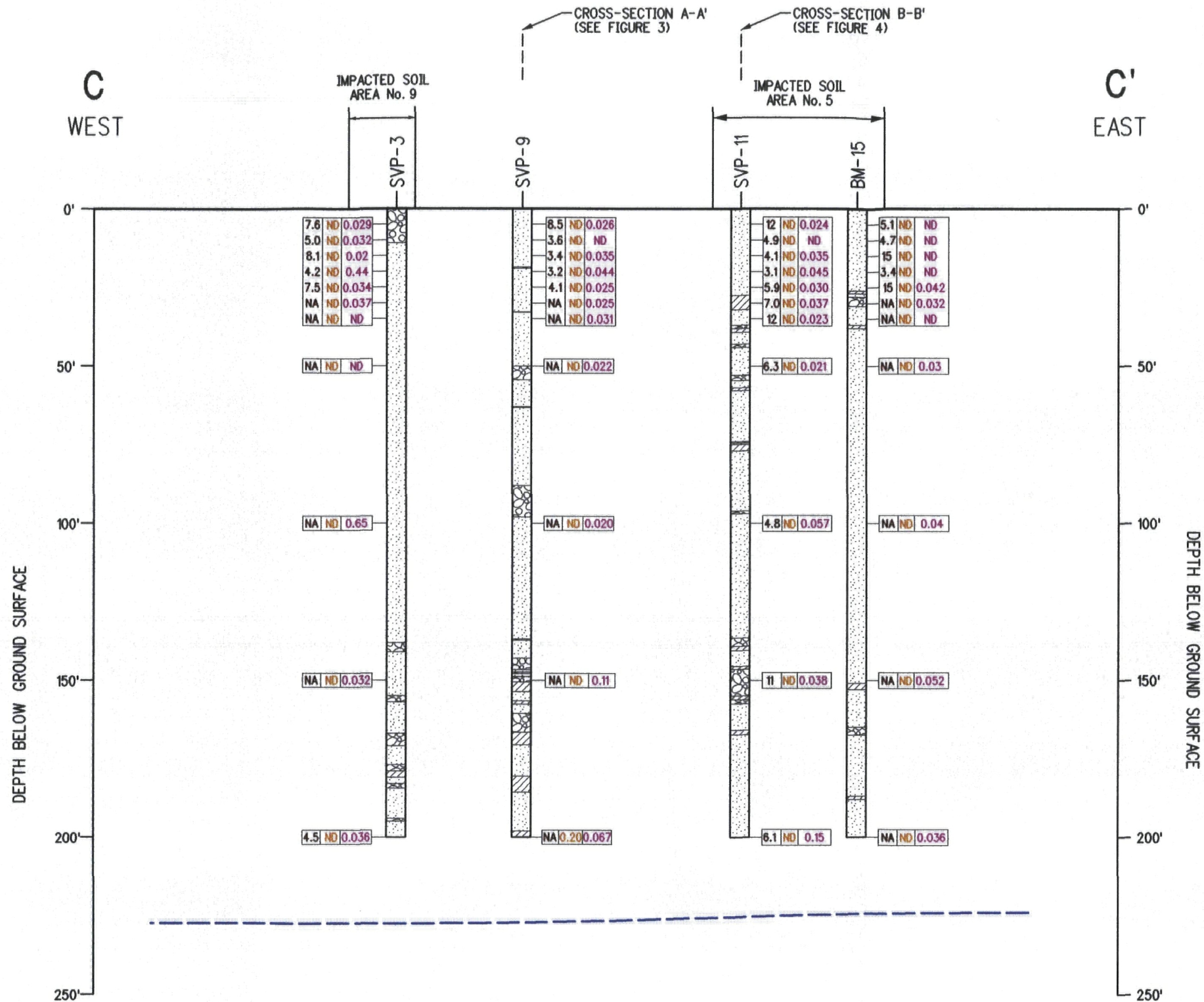
SITE LOCATION MAP
FORMER WEBER
AIRCRAFT FACILITY
BURBANK, CA

**PARTIALLY SCANNED
OVERSIZE ITEM(S)**

See document # 2240276
for partially scanned image(s).

FIGURES 2 TO 4

For complete hardcopy version of the oversize document
contact the Region IX Superfund Records Center



LEGEND

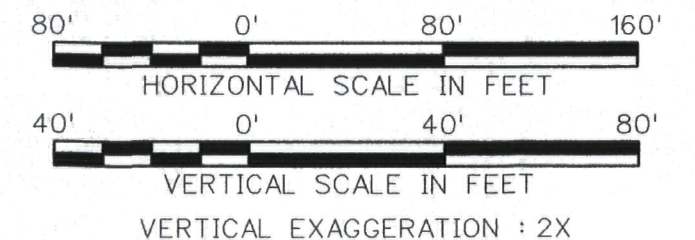
- CONCENTRATION OF TOTAL CHROMIUM IN SOIL
- CONCENTRATION OF MERCURY IN SOIL
- CONCENTRATION OF HEXAVALENT CHROMIUM
- ND NOT DETECTED AT OR ABOVE DETECTION LIMITS
- NA NOT ANALYZED
- GROUNDWATER LEVEL PROJECTED FROM NEARBY MEASUREMENTS

SIMPLIFIED LITHOLOGY:

- GRAVELLY SOIL
- SANDY SOIL
- SILTY SOIL

NOTES

- CONCENTRATION UNITS ARE MILLIGRAMS PER KILOGRAM (mg/Kg).
- DETAILED BORING LOGS IN APPENDIX B.
- GROUND SURFACE SHOWN FLAT FOR PRESENTATION PURPOSES. SEE SURVEY REPORT IN APPENDIX G FOR TOP OF BORING ELEVATIONS.



Burns & McDonnell
SINCE 1896

Figure 5
CROSS SECTION C-C' SHOWING CONCENTRATIONS OF Total Cr, Cr +6, AND Hg IN SOIL FORMER WEBER AIRCRAFT FACILITY BURBANK, CA

**PARTIALLY SCANNED
OVERSIZE ITEM(S)**

See document # 2240276
for partially scanned image(s).

FIGURES 6 TO 7

For complete hardcopy version of the oversize document
contact the Region IX Superfund Records Center

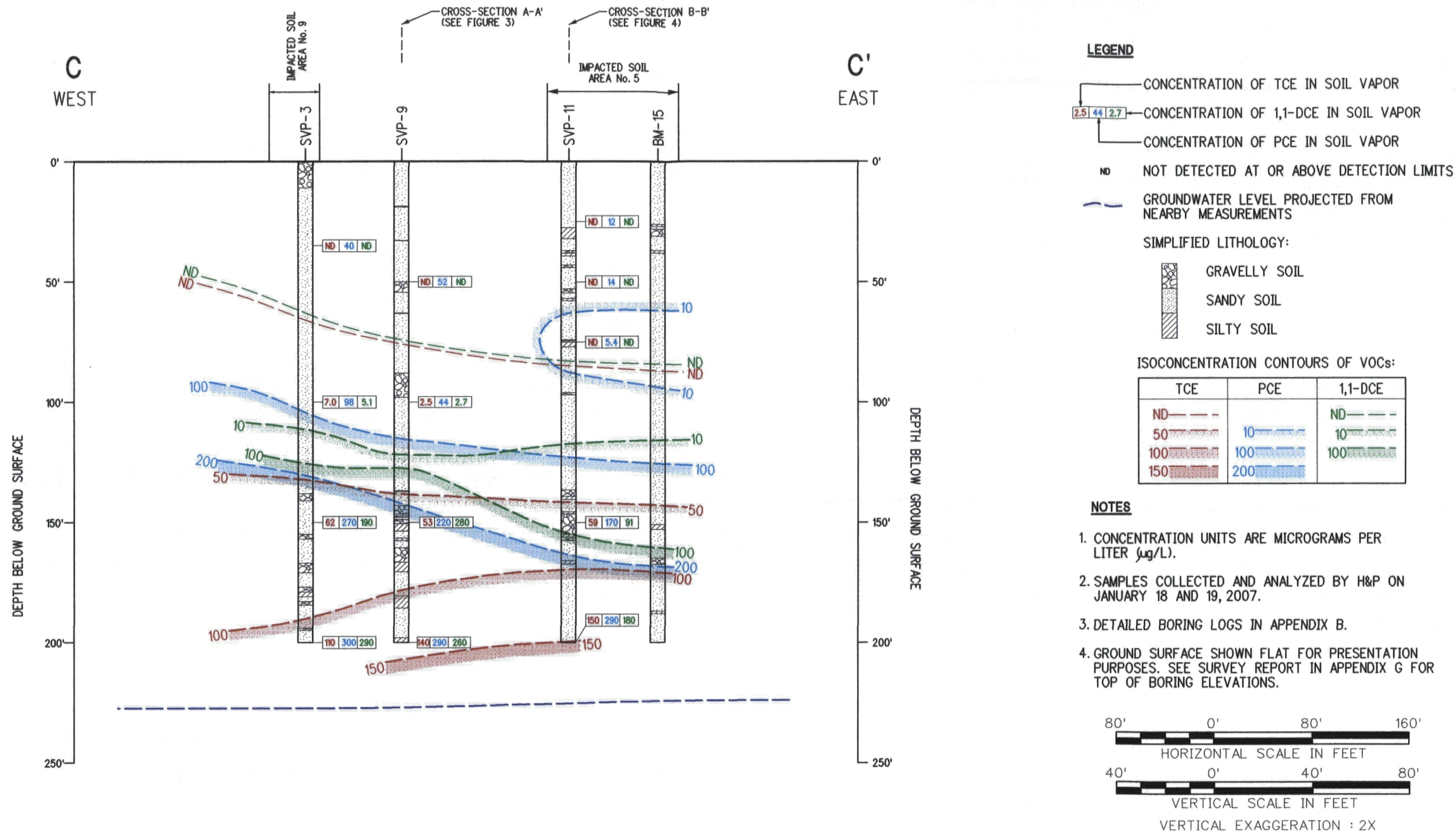
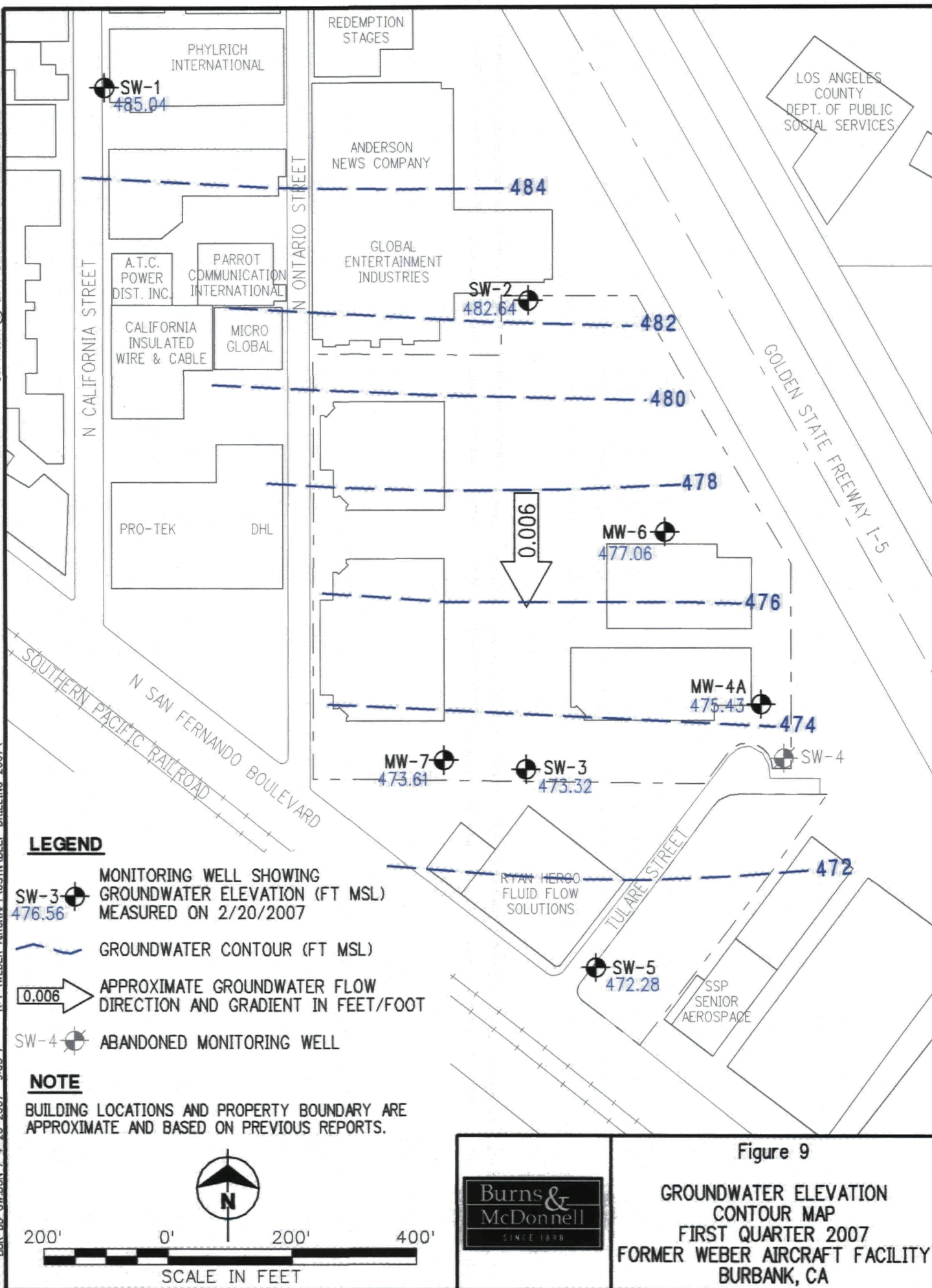


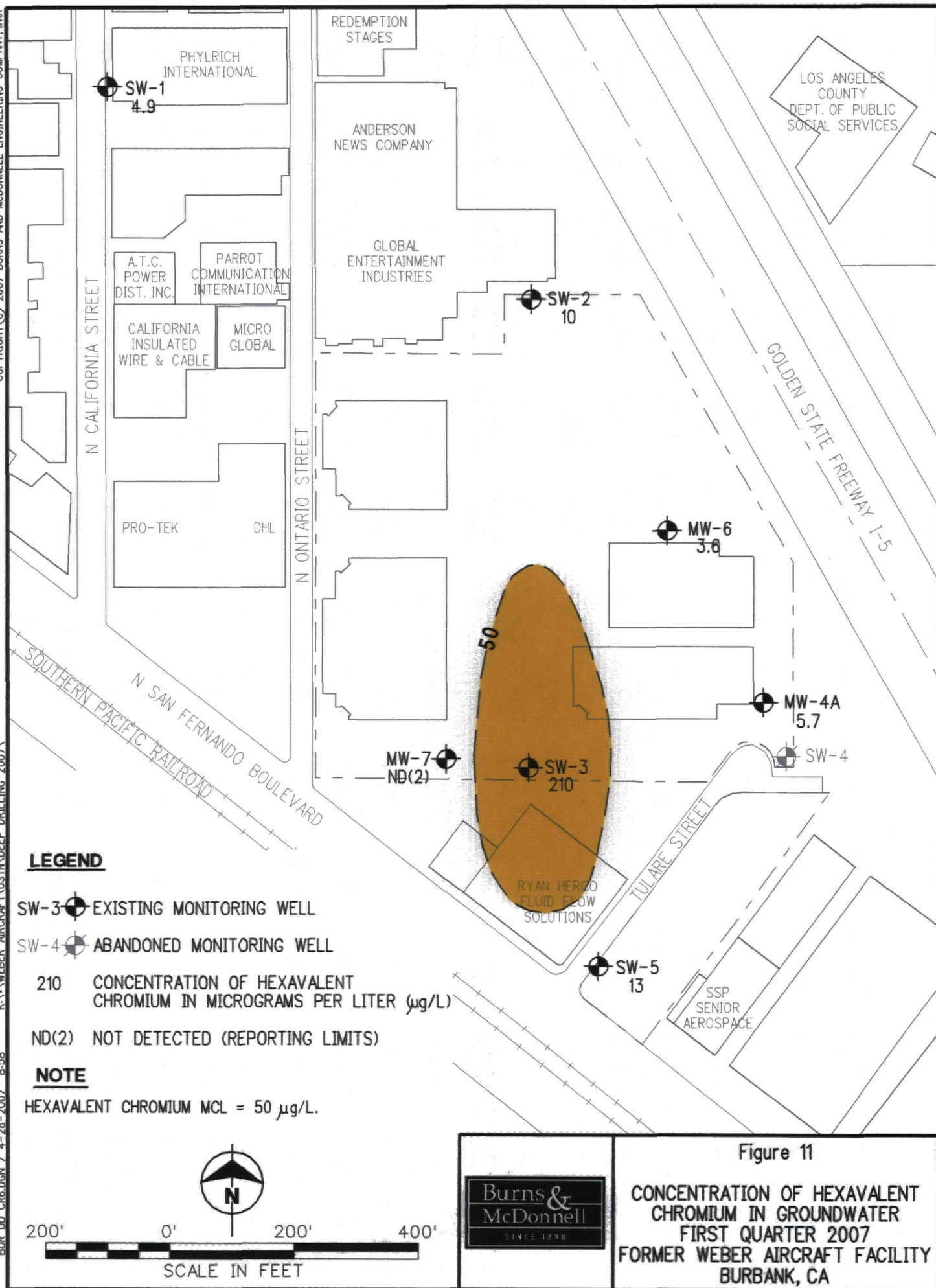
Figure 8

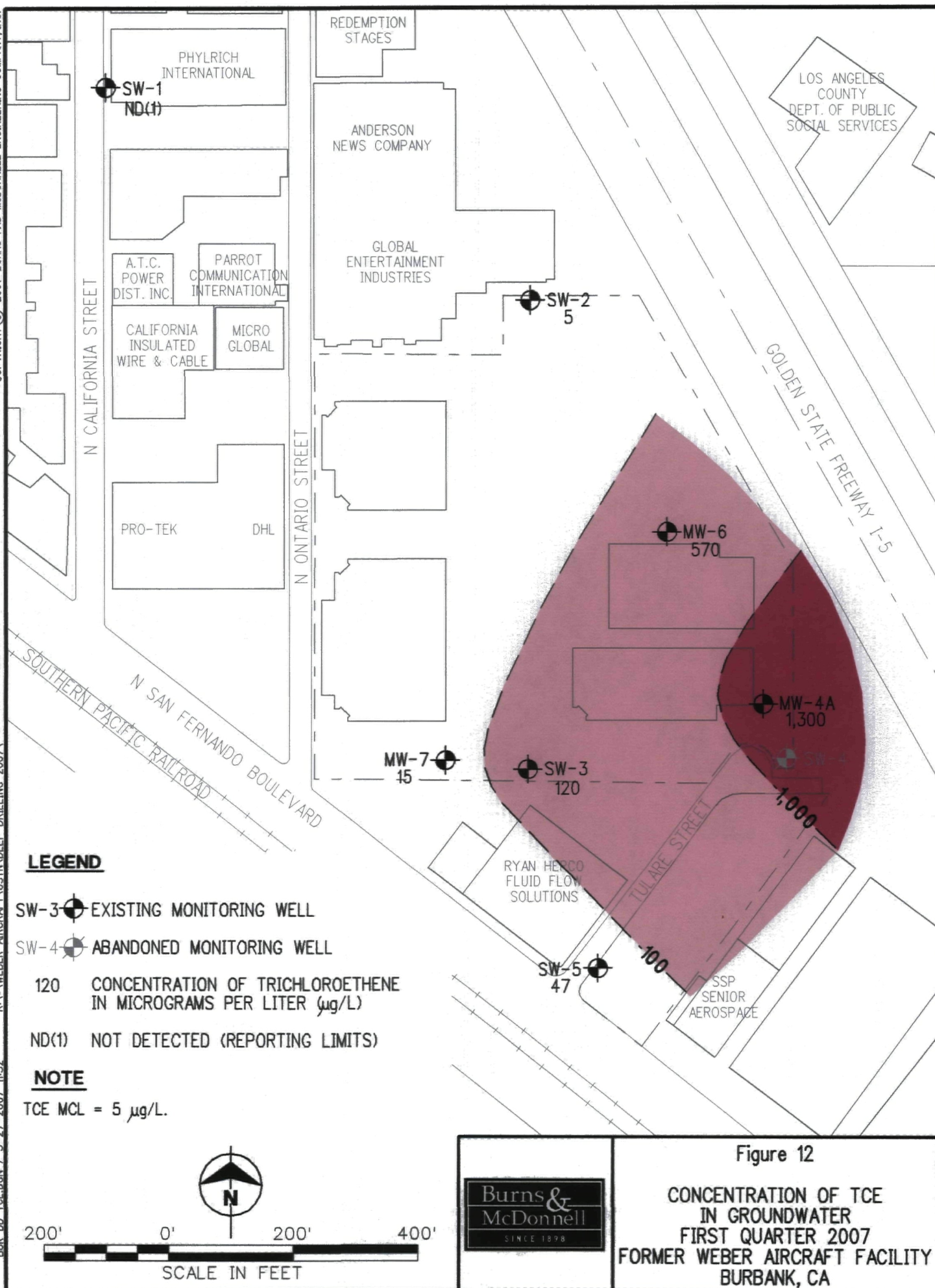
Burns & McDonnell
SINCE 1898

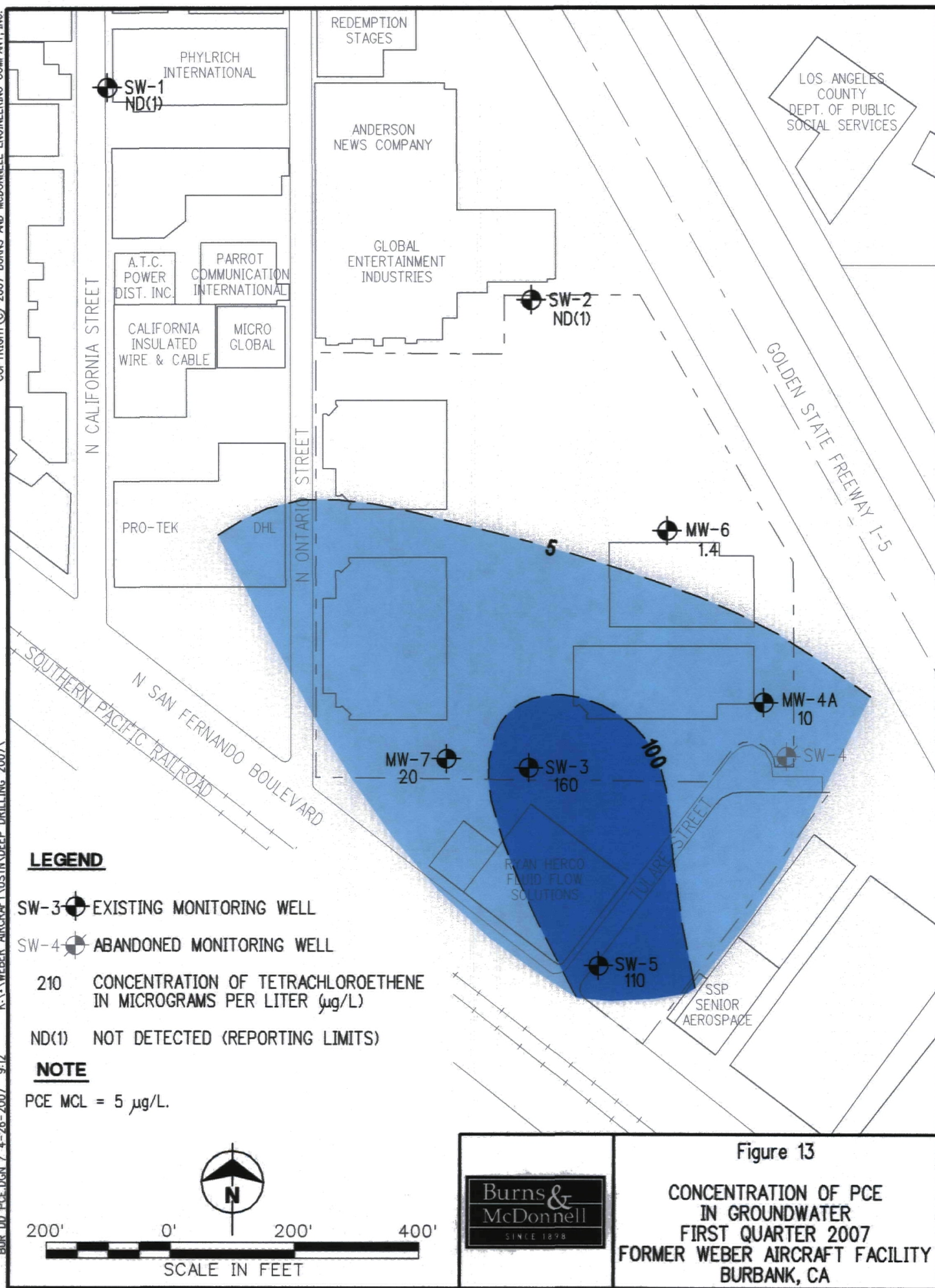
CROSS SECTION C-C' SHOWING CONCENTRATIONS OF TCE, PCE, AND 1,1-DCE IN SOIL VAPOR
FORMER WEBER AIRCRAFT FACILITY
BURBANK, CA

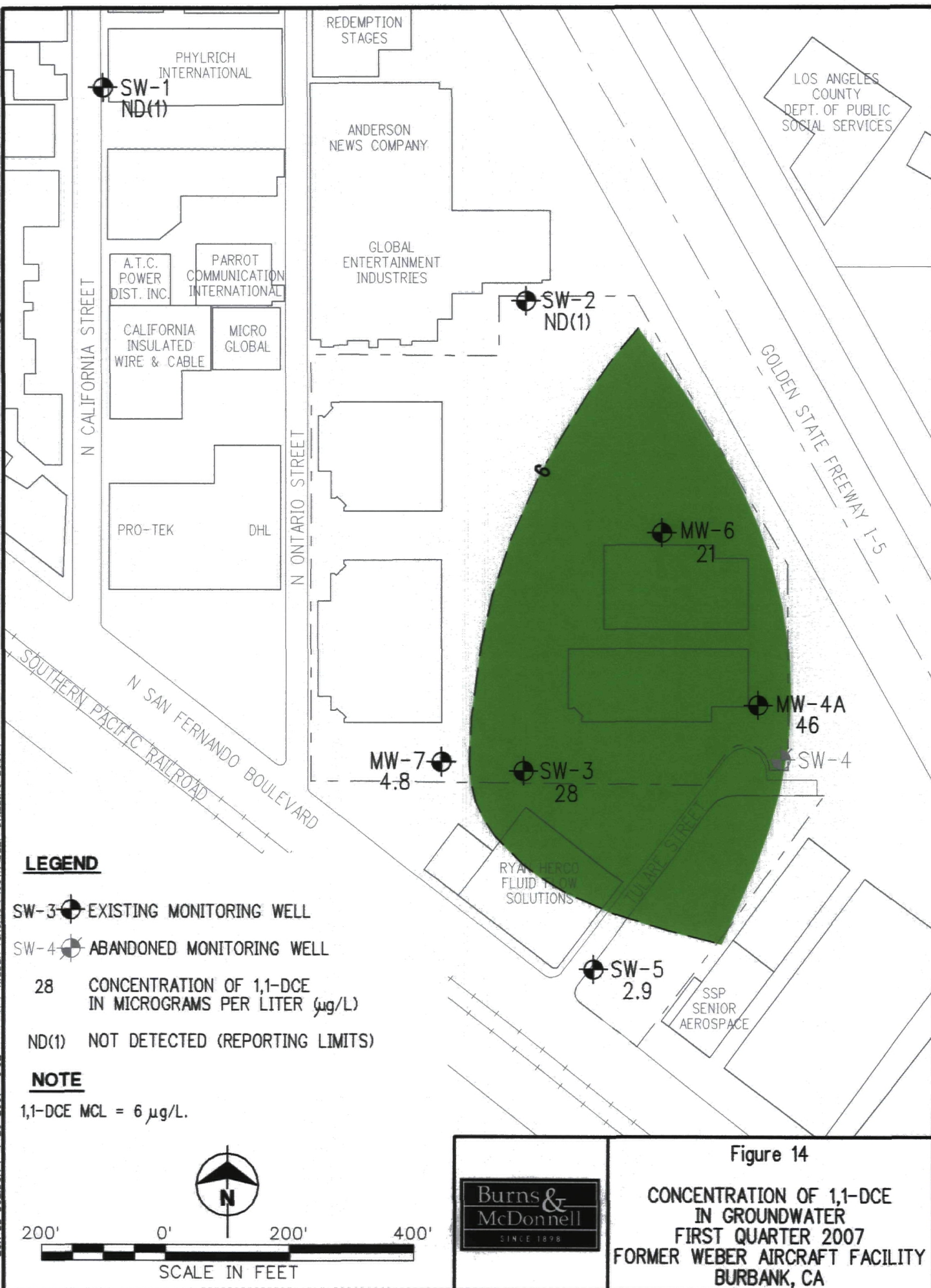












APPENDIX A

RWQCB CORRESPONDENCE



California Regional Water Quality Control Board

Los Angeles Region



Linda S. Adams
Agency Secretary

Recipient of the 2001 Environmental Leadership Award from Keep California Beautiful

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Phone (213) 576-6600 FAX (213) 576-6640 - www.waterboards.ca.gov/losangeles

Arnold Schwarzenegger
Governor

April 12, 2007

Mr. David Guier
Lyondell Chemical Company
1 Houston Center, Suite 700
1221 McKinney Street
Houston, Texas 77010

EXTENSION REQUEST TO SUBMIT ADDITIONAL SITE ASSESSMENT REPORT FOR COMPLIANCE WITH CALIFORNIA WATER CODE SECTION 13267 - FORMER WEBER AIRCRAFT FACILITY, 2820 N. ONTARIO STREET, BURBANK, CALIFORNIA (SLIC ID NO. 2040110; FILE NO. 104.1132)

Dear: Mr. Guier,

The California Regional Water Quality Control Board, Los Angeles Region, ("Regional Board") staff received an email from you dated April 4, 2007 with an attachment presenting a letter requesting a time schedule extension to submit Lyondell Chemicals' Additional Site Assessment Report. The report was to have been submitted by February 28, 2007 as presented in the Regional Board letter dated October 20, 2006.

After reviewing your letter, the Regional Board is granting your request for a one time extension to submit the required report. The new due date for submitting the technical report is now **May 4, 2007**.

Pursuant to Section 13268 of the California Water Code, failure to submit the required technical report by the due date specified may result in administrative civil liability penalties being assessed by the Regional Board, in an amount up to one thousand dollars (\$1,000) per day for each day the technical report is not received. These penalties can be assessed by the Regional Board without further warning.

If you have any questions regarding this matter, please call Mr. Larry Moore at (213) 576-6730 or Mr. Dixon Oriola at (213) 576-6803.

Sincerely,


Jonathan Bishop
Executive Officer

cc: Ms. Rachel Loftin, USEPA Superfund Division, Region IX, San Francisco
Mr. Gary Messerotes, Burns & McDonnell

California Environmental Protection Agency



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One Houston Center, Suite 700
11221 McKinney Street
Houston, TX 77010

Phone: 713-309-7794
Fax: 713-309-2636
david.guier@lyondell.com

www.lyondell.com

April 4, 2007

Mr. Jonathan S. Bishop
Executive Officer
California Regional Water Quality Control Board, Los Angeles Region
320 W. 4th Street, Suite 200
Los Angeles, California 90013

Re: Request for Extension
Submittal of Technical Report for Recent Investigation Activities
Former Weber Aircraft Facility
(SLIC ID No. 2040110; File No. 104.1132)

Dear Mr. Bishop,

On behalf of P.H. Burbank Holdings, Inc., I would like to request an extension until May 4, 2007, for submittal of the additional site assessment report for the above referenced site.

If you have any questions, please don't hesitate to contact me at (713) 309-7794 or our environmental consultant (Gary Messerotes, Burns & McDonnell) at (650) 871-2926 ext 238.

I appreciate your receptiveness and approval of this request.

Sincerely,

David Guier
Remediation & Retained Liabilities Program Manager

Cc: Mr. Dixon Oriola, LARWQCB
Mr. Larry Moore, LARWQCB
Ms. Rachel Loftin, USEPA, San Francisco
Mr. Gary P. Messerotes, Burns & McDonnell



California Regional Water Quality Control Board

Los Angeles Region



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Linda S. Evans
Agency Secretary

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Arnold Schwarzenegger
Governor

January 18, 2007

Mr. David Guier
Lyondell Chemical Company
1 Houston Center, Suite 700
1221 McKinney Street
Houston, Texas 77010

Certified Mail
Return Receipt Requested
Claim No. 7005 1820 0001 2683 6221

**REQUIRED TECHNICAL REPORT PURSUANT TO CALIFORNIA WATER CODE
SECTION 13267- FORMER WEBER AIRCRAFT FACILITY, 2820 N. ONTARIO
STREET, BURBANK, CALIFORNIA (SLIC ID NO. 2040110; FILE NO. 104.1132)**

Dear Mr. Guier:

In October 2006, staff of the California Regional Water Quality Control Board - Los Angeles Region (Regional Board) approved technical document entitled *Work Plan for Further Site Assessment Activities*, (Burns and McDonnell Engineering Company, October 2006). The workplan was approved for the collection and analysis of soil and groundwater samples at the former Weber Aircraft facility (subject site) located at 2820 Ontario Street, Burbank. Although the workplan did include procedures for the collection of soil vapor samples, the procedures did not follow the Regional Board's specific requirements and procedures. This omission was an oversight by Regional Board staff and was identified through recent discussions with your consultant (Burns and McDonnell). To ensure that our requirements and procedures are followed, the Regional Board is providing this response letter and the following guidelines as attachments:

- *Interim Guidance for Active Soil Gas Investigation, February 25, 1997, and*
- *Joint DTSC and LARWQCB Advisory for Active Soil Gas Investigation, January 28, 2003.*

These documents were provided to your consultant during the week of January 8, 2007 following a discussion with them about the documents' guidelines and requirements.

This letter is being provided as documentation and approval for the collection and analysis of soil gas samples at the subject site as long as the guidelines and requirements are followed and met. Therefore, you can proceed with implementing the soil gas collection and analysis phase of the site investigation. Additionally, these documents will provide you the guidelines for which to substantiate the presence of volatile organic compounds (VOCs) in the soil at the subject site.

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January 18, 2007

The soil gas survey is to be documented in a technical report as reflected in the subject title of this letter. This technical report must be submitted to the Regional Board by March 16, 2007 in accordance with the specific instructions below:

1. As previously stated the soil gas investigation should be conducted following the Regional Board's 2003 *Advisory - Joint DTSC and LARWQCB Advisory for Active Soil Gas Investigation, January 28, 2003*, and *Interim Guidance for Active Soil Gas Investigation, February 25, 1997*. The results of the soil vapor gas sampling should be compared to California Human Health Screening Levels (CHHSLs) which are presented as an attachment to this letter also. In addition, the soil vapor results must also be compared with soil screening levels (SSLs) developed for groundwater protection in accordance with the Regional Board's 1996 *Interim Site Assessment and Cleanup Guidebook*. If results are reported above the CHHSLs, then you have the option to remediate the soil or begin the preparation of a Human Health Risk Assessment (HHRA) that will be submitted to the Regional Board for further review by the State of California Office of Environmental Health Hazard Assessment (OEHHA).
2. An updated base map of the subject site and adjacent properties is needed. The map should present existing and potential contaminant sources and all soil gas test boring locations, soil test boring locations, and groundwater monitoring well locations;
3. A colored contoured contaminant plume map for each contaminant of concern based on the soil gas data;
4. Two geologic cross-section; with one plot transversing the subject site north to south and one from east to west. The cross-sections should present the location of most soil gas test borings, soil test boring locations, the water table and groundwater monitoring wells as well as soil lithology, groundwater aquifer(s) and analytical data for constituents of concern; and
5. An updated plot plan of the subject site including existing buildings and former location(s) of above ground tanks and other types of similar structures as well as locations of past and present underground structures (i.e., underground storage tanks, clarifier, etc.).

All work must be performed under the responsible charge of a geologist registered in the State of California, Certified Engineering Geologist, Registered Civil Engineer or Registered Geotechnical Engineer. A statement is required in the report that the licensed professional in responsible charge actually supervise or personally conduct all work associated with the project as defined in the Professional Engineers Act or the Registered Geologist Act of California Code of Regulations.

All final reports should be developed following the Regional Board's *Guidelines for Report Submittals (March 1991, Revised June 1993)* and shall be submitted as a hardcopy and also in

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Mr. David Guier
Lyondell Chemical Company/Former Weber Aircraft

- 3 -

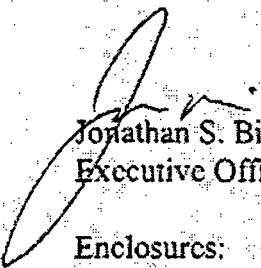
January 18, 2007

electronic Adobe® "pdf" format. A total of two (2) hardcopies and one (1) electronic copy of each final report shall be submitted. Laboratory QA/QC data must be included with each final report.

Regional Board staff must receive notification of the commencement of any field activities, or site access difficulties in order to provide regulatory oversight.

If you have any questions, please contact Mr. Larry Moore at (213) 576-6730 or Dixon Oriola at (213) 576-6803.

Sincerely,

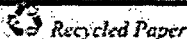


Jonathan S. Bishop
Executive Officer

Enclosures: a) *Advisory for Active Soil Gas Investigation, DTSC/LARWQCB, January 28, 2003*
b) *Interim Guidance for Active Soil Gas Investigation, February 25, 1997*
c) *Table of California Human Health Screening Levels (CHHSLs)*
d) *Guidelines for Report Submittals, revised June 1993*

cc: Mr. Rachel Loftin, USEPA Superfund Division, Region IX, San Francisco
Mr. Gary Messerotes, Burns & McDonnell

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California Regional Water Quality Control Board

Los Angeles Region



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Arnold Schwarzenegger
Governor

October 19, 2006

Mr. David Guier
Lyondell Chemical Company
1 Houston Center, Suite 700
1221 McKinney Street
Houston, Texas 77010

WORKPLAN APPROVAL FOR AN EXPANDED SITE INVESTIGATION -- LYONDELL CHEMICAL (FORMER WEBER AIRCRAFT) FACILITY, 2820 N. ONTARIO STREET, BURBANK, CALIFORNIA (FILE NO. 104.1132)

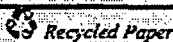
Dear Mr. Guier:

California Regional Water Quality Control Board - Los Angeles Region (Regional Board) staff have completed a review of the *Work Plan for Further Site Assessment Activities*, prepared by Burns and McDonnell Engineering Company, Inc. dated October 2006. Based on our review of the workplan, we have no objections to the implementation of the workplan provided that all work is completed as specified in the workplan and complies with the following conditions and requirements:

- 1) Soil test boring BM-4 may be eliminated from the scope of work;
- 2) Soil test boring BM-13 and BM-17 may be placed on hold, to be installed as needed;
- 3) Move the placement of BM-7 either into the area designated as "impacted soil area no. 10" or to a location approximately 60 feet to the east ;
- 4) Add to the scope of work the placement of dedicated soil vapor probes in the following borings, at the respective depths as indicated:
 - MW-4A, at depths of 50, 100, and 150-feet below ground surface (bgs),
 - BM-15, at depths of 50, 100, and 150-feet (bgs), and
 - BM-16 at depths of 50, 100, and 150-feet (bgs).
- 5) Regional Board staff must receive a five working days notification prior to the commencement of field activities, so that we may schedule our staff to be present to document the field activities.

Pursuant to the State Water Resources Control Board Resolution No. 92-49, under the California Water Code, Section 13304, all technical work must be conducted by or directly supervised by, by a California professional geologist, a California certified specialty geologist, or a California

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Mr. David Guier
Lyondell Chemical Company/Former Weber Aircraft

- 2 -

October 19, 2006

registered civil engineer with at least five years hydrogeologic experience. This requirement includes any technical documents submitted to this Regional Board must be reviewed, signed and stamped by the aforementioned professional geologist or engineer.

The due date for submitting the final technical report is **February 30, 2007**. As provided in Section 13268 of the California Water Code, failure to submit the required technical report by the due date specified may result in administrative civil liability penalties being assessed by the Regional Board, in an amount up to one thousand dollars (\$1,000) per day for each day the technical report is not received.

If you have any questions regarding this matter, please call Alex Lapostol at (213) 576-6747 or Larry Moore at (213) 576-6730 or the undersigned at (213) 576-6803.

Sincerely,



Dixon A. Oriola, Unit Chief
Spills, Leaks, Investigation, & Cleanup (SLIC) Unit II

Mr. Mark Mackowski, Upper Los Angeles River Area (ULARA) Watermaster
Mr. Leighton Fong, City of Glendale
Mr. Bill Mace, City of Burbank
Mr. Thomas Erb, Los Angeles Department of Water and Power
Ms. Rachel Loftin, US Environmental Protection Agency, Superfund Division, Region IX
Mr. Gary Messerotes, Burns and McDonnell, Inc.

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California Regional Water Quality Control Board

Los Angeles Region



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Arnold Schwarzenegger
Governor

October 2, 2006

Mr. Daniel F. Smith, President & CEO
Lyondell Chemical Company
1 Houston Center, Suite 700
1221 McKinney Street
Houston, Texas 77010

Certified Mail Return Receipt
7005-1820-0001-2683-5750

REQUIREMENT FOR TECHNICAL REPORT (WORKPLAN) TO CONDUCT A SOIL AND GROUNDWATER INVESTIGATION PURSUANT TO CALIFORNIA WATER CODE SECTION 13267- FORMER WEBER AIRCRAFT FACILITY, 2820 N. ONTARIO STREET, BURBANK, CALIFORNIA (FILE NO. 104.1132, SLIC ID NO. 2040110)

Dear Mr. Smith:

This is the second letter directed to your company's representatives pursuant to Section 13267 of the California Water Code requiring a comprehensive soil and groundwater assessment at the former Weber Aircraft facility located in Burbank, California. The first letter (enclosed), dated April 9, 2004 was directed to Mr. Eric Nemeth, an Attorney representing your company's interests regarding the acquisition of properties with an environment impact, such as the former Weber Aircraft facility, referenced above.

A response to the Regional Board's April 9, 2004 letter was prepared by Golden State Environmental (GSE) on behalf of Mr. Eric Nemeth dated June 29, 2004 (enclosed). However, the response was technically inadequate and did not address the main soil contamination source areas, or include the required soil assessment workplan. To date, this requirement is yet to be fulfilled. Our staff has granted a time extension to your company's representatives on several occasions in view of the past corporate takeovers, company reorganizations and new staff getting acquainted with the case. After two and a half years, the Regional Board finds it necessary to reissue the assessment directive and requirement. Mr. David R. Guier, Manager of Retained Liabilities and Remediation Programs for your company has responded to other directives from the United States Environmental Protection Agency - Region IX (USEPA) and this Regional Board with regard to updating the groundwater quality data beneath the subject site, however, we gather, that there was some confusion on his part with respect to our soil assessment requirements.

Following a formal meeting with Regional Board staff in July 2005, to review this case and the various investigation and remediation requirements, Lyondell Chemical representatives failed to respond in a timely manner with the results of the due diligence research into the following:

- a) History of Weber Aircraft operations onsite,
- b) Information regarding the identification and location of potential contaminant source areas,
- c) Onsite areas which have been impacted by prior waste discharges to the soil, and

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Mr. Daniel F. Smith
Lyondell Chemical Company/
(Former Weber Aircraft)

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October 2, 2006

- d) Results of past onsite chemical use (i.e., spills, leaks, etc.), which have been previously documented as shallow soil and groundwater contaminant impacts reflected in USEPA and our historical files.

Presently, we have had several formal meetings with Mr. Guier and his retained consultant, Burns & McDonnell Engineering Company Inc. (Burns & McDonnell). Additionally, there has been an exchange of written correspondence (letters and e-mails) and several telephone conference calls between representatives of USEPA, the Regional Board and your company, but to date the required information has not been received. The most recent contacts with your representatives were as follows:

- July 12, 2006: conference call with representatives of USEPA, Regional Board and Lyondell Chemical and consultant;
- July 28, 2006: formal meeting at the Regional Board's office between property owner and representatives of Lyondell Chemical and consultant and Regional Board. Representatives from USEPA participated via conference call; and
- September 8, 2006: conference call with representatives of USEPA, Regional Board and Lyondell Chemical and consultant.

In addition and for your information, the former Weber Aircraft is a signatory party to USEPA's Superfund Consent Decree under the Comprehensive Environmental Response and Liability Act (CERCLA) for Burbank Operable Unit (BOU) and is also under the regulatory oversight of this agency that applies the Porter Cologne Water Quality Control Act and relevant provisions of California's Health and Safety statutes.

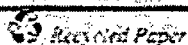
REQUIREMENTS

The required technical report (workplan) must address all soil, and groundwater issues stated in the Regional Board letter dated April 9, 2004. In addition, soil assessment will be required in and around the former dry-well, "Burn Test" room adjacent to area W1, and in the "pyro test" area adjacent to Tulare Street and south of area W7.

The following are additional specific requirements which must be addressed or provided in the required workplan.

1. Delineation plans for soil impacted with heavy metals and volatile organic compounds (VOCs) covering the vadose zone (approximately 240 feet thick) between the surface and capillary fringe in the areas indicated;
2. Chemical analyses of soil samples collected during the assessment of the Burn and Pyro test areas must include dioxins, furans, and perchlorate compounds;

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3. Two or more geologic cross sections across the site illustrating the soil stratigraphy, showing historical soil analytical results at boring locations, including soils adjacent to areas that have been excavated;
4. The general soil investigation areas and scope of work should correspond to the details regarding additional groundwater delineation wells, soil borings, and permanent vapor probes and analytical methodologies that were discussed on July 28, 2006;
5. Review of the most recent groundwater monitoring results reported in the September 2006 performed by Burns & McDonnell indicates the total chromium (Cr) concentration at 770 micrograms per liter ($\mu\text{g/L}$) from groundwater monitoring well SW-3. Furthermore the results from SW-4 for trichloroethene (TCE) and tetrachloroethylene (PCE) were reported at 790 $\mu\text{g/L}$ and 740 $\mu\text{g/L}$, respectively. The Cr, TCE, and PCE exceed the regulatory maximum contaminant level (MCL) for drinking water of 50-, 5- and 5- $\mu\text{g/L}$, respectively as presented in the table below:

Groundwater Contaminant (well)	Reported Result	Maximum Contaminant Level (MCL)
Total Chromium (SW-3)	770 $\mu\text{g/L}$	50 $\mu\text{g/L}$
Trichloroethylene (SW-4)	790 $\mu\text{g/L}$	5 $\mu\text{g/L}$
Tetrachloroethylene (SW-4)	740 $\mu\text{g/L}$	5 $\mu\text{g/L}$

These results suggest that these chemicals have probably migrated traveled through about 240 feet of native soil (i.e., vadose zone) and may now be impacting the underlying groundwater. As a result of this most recent groundwater monitoring data, Lyondell Chemical must propose the construction of at least two new groundwater monitoring wells, which are to be located upgradient of SW-3 and SW-4.

The required workplan for the vertical and lateral assessment of heavy metals, VOCs, perchlorate, and dioxins at the former Weber Aircraft facility is due on November 1, 2006. The Regional Board needs the information in order to determine the extent of soil contamination that will lead to conclusive evidence regarding the potential threat to groundwater quality and further degradation.

AUTHORITY

The Regional Board's request for this technical report is made pursuant to Section 13267 of the California Water Code. Furthermore, Section 13268 of the California Water Code provides that failure to submit the required technical report by the due date specified may result in administrative civil liability penalties being assessed by the Regional Board, in an amount up to one thousand dollars (\$1,000) per day for each day the technical report is not received.

Any person or entity affected by this action of the Regional Board may petition the State Water Resources Control Board (State Board) to review the action in accordance with Section 13320 of the California Water Code and Title 23, California Code of Regulations, Section 2050. The petition must be received by the State Board, Office of Chief Counsel, P. O. Box 100 Sacramento, California 95812 within 30 days of the date of this order. Copies of the law and regulations applicable to filing petitions will be provided upon request.

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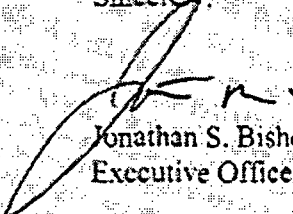
Mr. Daniel F. Smith
Lyondell Chemical Company/
(Former Weber Aircraft)

- 4 -

October 2, 2006

If you have any questions regarding this matter, please call Mr. Dixon Oriola at (213) 576-6803 or Mr. Larry Moore at (213) 576-6730.

Sincerely,



Jonathan S. Bishop
Executive Officer

Attachments: Regional Board Letter dated April 9, 2004

cc: Mr. Leighton Fong, City of Glendale
Mr. Mark Mackowski, Upper Los Angeles River Area Watermaster
Mr. Thomas Erb, Los Angeles Department of Water & Power
Mr. Rachel Loftin, USEPA Superfund Division, Region IX, San Francisco
Mr. Bill Mace, City of Burbank Water Supply Department
Mr. David Guier, Lyondell Chemical

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Phone (213) 576-6600 FAX (213) 576-6640 - Internet Address: <http://www.swrqcb.ca.gov/rac004>



Arnold Schwarzenegger
Governor

April 9, 2004

Mr. Eric J. Nemeth, Esq.
Edwards & Angell LLP
51 John F. Kennedy Parkway
Short Hills, NJ 07078-5006

REQUIREMENTS FOR ADDITIONAL SUBSURFACE SOIL AND GROUNDWATER ASSESSMENTS AT FORMER WEBER AIRCRAFT FACILITY, 2820 N. ONTARIO STREET, 2913 N. ONTARIO STREET, AND 3000 SAN FERNANDO BOULEVARD, BURBANK, CALIFORNIA 91504 (FILE NO. 104.1132) (SITE ID NO. 2040110)

Dear Mr. Nemeth:

Regional Board staff have reviewed our files on your site and find that you need to perform additional soil and groundwater assessments. You are therefore required to comply with the following requirements:

1. **SOIL ASSESSMENT:** As stated in your report titled *Drilling at Underground Features* submitted by Woodward Clyde in March 1993, very high concentrations of volatile organic compounds (VOCs) were detected in the soil samples collected from source area borings. The soil samples were collected from 1 foot below ground surface (bgs) to 24 feet bgs in borings DG3, C-10, C-29, C-8, and C-5. As a result of the investigation, 11 impacted soil areas (ISAs) 1 through 11 were identified. Aerial extent of the ISAs were reported in the *Workplan for Investigation of Impacted Soil Areas* dated February 1993. Excavation of some contaminated soil occurred at locations ISA-1, ISA-2, ISA-4, ISA-7, ISA-11, and at the "Former Geophysical Anomaly H" were reported in the *Workplan for Materials Disposition* dated September 1993 which is summarized below:
 - (a) Yellow-stained soil was identified in approximately 1,000 square feet area of ISA-1 during demolition activities and was assumed to extend to a depth of 3 feet bgs. One hundred and ten cubic yards (cy) of impacted soil was later excavated from ISA-1 to a depth of 1-foot bgs.
 - (b) The lateral extent of excavated soil at ISA-2 covers an area estimated to be 670 square feet, but resulted in only an excavation in volume of 25 cy of impacted soil to a depth of 1 foot bgs.

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33 Replied Pages

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- (c) No soil was excavated from ISA-3.
- (d) Slight-greenish stained soil was found in ISA-4. An analysis of a soil sample detected as much as 203 milligrams per kilogram (mg/kg) of chromium. As a result, 50 cy of stained soil was excavated to a depth of 1 foot bgs, and two soil samples were collected from one foot below the bottom of the excavation to determine the effectiveness of the excavation. These samples were analyzed to determine the presence or lack thereof with respect to chromium. Chromium concentrations were found to be below response levels, such as the total threshold limit concentration (TTLC) or 10 times soluble threshold limit concentration (STLC).
- (e) No soil was excavated from ISA-5.
- (f) No impacted soil was removed from ISA-6, despite the detection of 429,000 micrograms per kilogram ($\mu\text{g/kg}$) of tetrachloroethylene (PCE) in a soil sample collected from 5 feet bgs, 376,000 $\mu\text{g/kg}$ of PCE in soil sample collected from 9 feet bgs, 135,000 $\mu\text{g/kg}$ of PCE in soil sample collected from 14 feet bgs, and 164 $\mu\text{g/kg}$ of PCE in soil sample collected from 24 feet bgs in boring C-10 located in ISA-6. Similarly, no impacted soil removal was reported from ISA-6, despite detection of 36,600,000 $\mu\text{g/kg}$ of PCE, 70,000 $\mu\text{g/kg}$ of 1,2-cis-dichloroethylene (DCE), and 12,500 $\mu\text{g/kg}$ of ethylbenzene in the 2-foot soil sample from boring C-29 located in ISA-6.
- (g) In addition to the VOCs, mercury (Hg) was also reported at 62.1 mg/kg at 5 feet bgs, 61.4 mg/kg at 9 feet bgs, 28.3 mg/kg at 14 feet bgs, and 77.6 mg/kg at 19 feet bgs in soil samples collected from boring C-10. Some heavy metals such as cadmium (Cd), chromium (Cr), lead (Pb), Copper (Cu), Nickel (Ni), and Hg were also detected in the 2 foot soil sample collected from boring C-29 at concentrations of 90.3 mg/kg, 595 mg/kg, 740 mg/kg, 627 mg/kg, 286 mg/kg, and 6.72 mg/kg, respectively. Many of the above concentrations exceed the United States Environmental Protection Agency's (USEPA) DAF-20 soil screening levels for migration to groundwater that are listed in the preliminary remedial goals (PRG) dated October 2002. You are, therefore, required to determine the lateral and vertical extent of the contaminated soil located in the areas around boring C-10 and C-29, and remove or remediate the source areas.
- (h) Green stained soil was identified during demolition in the immediate area of clarifier C-17 within ISA-7. The areal extent of ISA-7 was estimated to be 2,200 square feet and the depth of impacted soil estimated to be 45 feet bgs. On February 25, 1998, the eastern portion of ISA-7 (the location of clarifier C-17) was excavated. The final excavation measured 18 feet by 14 feet, and was 19 feet deep. A total of approximately 168 cy of impacted soil was transported offsite for disposal. However, the plan for excavating the discolored Cd, Cr, Cu, and Pb impacted soil was not implemented to a

depth of 5 feet bgs for the remaining portion of ISA-7. Cadmium was detected at concentrations of 10 mg/kg and 25 mg/kg in several 2.5-foot soil samples collected from borings B-16 and B-26 (located west of the excavation). Therefore, you are required to determine the lateral and vertical extent of the contaminated soil located in the area around borings B-16 and B-26 and remaining portion of ISA-7, and remove or remediate the source area.

- (i) Cadmium was detected at concentrations of 30.2 mg/kg at 2 feet, 26.1 mg/kg at 6-feet, and 39.8 mg/kg at 11 feet bgs in soil samples collected from boring C-12 located in Building 223 north of ISA-6, but no further investigation was conducted. You are, therefore, required to determine the lateral and vertical extent of the contaminated soil located in the area around borings C-12, and remove or remediate the source area.
- (j) Cadmium was detected at a concentration of 23 mg/kg in the Northeast Vat located in the ISA-8, but no further investigation was conducted. A more detailed investigation is required to delineate the extent of the contaminated soil in the area around the Northeast Vat area, and remove or remediate the impacted soil.
- (k) No removal of impacted soil was reported from ISA-9, despite the detection of 25,200,000 µg/kg of PCE, 923,000 µg/kg of benzene, 632,000 µg/kg of acetone, and 193,000 µg/kg of toluene in the 5 foot soil sample collected from boring DG-3 located in ISA-9. You are, therefore, required to determine the lateral and vertical extent of the contaminated soil located in the area around boring DG-3, and remove or remediate the source area.
- (l) PCE was detected at a concentration of 252 µg/kg at 1 foot, 432 µg/kg at 5 feet, 13,700 µg/kg at 10 feet, and 7,700 µg/kg at 15 feet bgs in soil samples collected from boring C-8 located in the ISA-10. Mercury was also detected in the soil at 1-, 5-, 10-, 15-, 20-, and 25-foot soil samples at concentrations of 72.4 mg/kg, 137 mg/kg, 21.5 mg/kg, 19.5 mg/kg, 22 mg/kg, and 25 mg/kg. Despite the detection of the above contaminants, no contaminated soil excavation or removal action was performed in ISA-10. You are, therefore, required to determine the lateral and vertical extent of the contaminated soil located in the area around the boring C-8, and remove or remediate the impacted soil.
- (m) Stained soils were identified in ISA-11, but no impacted soil was excavated.
- (n) Very high concentrations of VOCs and/or heavy metals were detected in soil samples collected from catch basins C-1, C-2, C-3, C-4, C-5, C-6, and C-7. Although, these catch basins were reported to have been removed, very little is known about the extent of any impacted soil beneath these basins. If soil samples were collected from the

bottom of these catch basins, please submit the analytical results to the Regional Board by May 14, 2004 to let us determine whether additional data will be required.

- (c) You are required to submit a workplan for additional soil assessment and remediation for the above listed areas to this Regional Board by May 14, 2004 for review and approval.

2. GROUNDWATER ASSESSMENT:

According to your *Phase II Initial Hydrogeologic Investigation Report* dated February 1991, 5 groundwater monitoring wells including SW-1 and SW-2 (upgradient) and SW-3, SW-4 and SW-5 (downgradient), were installed to a total depth of 260 feet bgs. All five wells were monitored for VOCs semi-annually from May 28, 1997 through to December 17, 1999. As required in our letter dated August 28, 2002, the last groundwater-monitoring event was conducted in December 2002 by your consultant Komex. They collected groundwater samples from the two upgradient wells SW-1 and SW-2. Well SW-4 was inaccessible because a concrete drainage ditch had been constructed over it. Unfortunately, wells SW-3 and SW-5 were dry. The groundwater samples from SW-1 and SW-2 were analyzed for VOCs, heavy metals and emerging chemicals. In order to assist the Regional Board in assessing the groundwater at your site, you are required to replace wells SW-3, SW-4, and SW-5 with groundwater monitoring wells screened at least 30 feet below and 5 feet above the current water table. These 3 replacement wells must be installed within 50 feet and downgradient of their present locations. You are also required to install additional groundwater monitoring wells at the following locations:

- (a) South of the location of former degreaser,
- (b) Between Buildings 214 and W-4,
- (c) Between San Fernando Road and Building W-6,
- (d) Northeast of Building W-7 south of ISA-11.

These 4 new wells will also be designed so that they are screened at least 30 feet below and 5 feet above the current groundwater level. After installation, monitoring of these new and existing wells will provide useful information to assist Regional Board staff regarding the delineation of the VOC, heavy metals, and emerging chemical(s) groundwater plumes. If the plumes have migrated offsite, additional groundwater monitoring wells may be required. You are required to submit a groundwater assessment workplan to the Regional Board by May 14, 2004 for our review and approval.

Mr. Eric Nemeth, Esqr.
Edwards & Angell, LLP
Former Weber Aircraft

- 5 -

April 9, 2004

3. Continue quarterly groundwater monitoring of the 3 replacement wells and the 4 new groundwater monitoring wells for VOCs, Title 22 heavy metals, and emerging chemicals, and submit quarterly groundwater monitoring reports in accordance with the following schedule:

<u>Reporting Period</u>	<u>Report Due Date</u>
April-June	July 15 th
July-September	October 15 th
October-December	January 15 th
January-March	April 15 th

The next groundwater monitoring report is due by July 15, 2004.

4. Include: a) iso-concentration maps for each significant contaminant detected, b) groundwater elevation contour maps, c) groundwater flow direction, and d) hydraulic gradient in each quarterly groundwater monitoring report. Include in each groundwater monitoring report, a summary table containing the depth to groundwater, the surveyed elevation of the top of the well casings, groundwater elevations, total depth and screen interval for each groundwater-monitoring/extraction well.
5. You are required to submit a time schedule for compliance with all the Regional Board requirements in this letter in the revised workplan.

Pursuant to Section 13267(b) of the California Water Code (CWC), you are hereby directed to submit two copies of the technical reports (workplan) in compliance with the above requirements to this Regional Board by May 14, 2004. Pursuant to Section 13268 of the CWC, failure to submit the required technical reports, by the due date, may result in civil liability imposed by the Regional Board in an amount not to exceed one thousand dollars (\$1,000) for each day that you fail to comply. The Regional Board can assess these civil liabilities at any time after April 30, 2004, and without further warning.

If you have any questions concerning this matter, please call Mr. Mohammad Zaidi at (213) 576-6732 or Mr. Dixon Oriola at (213) 576-6803.

Sincerely,



Dennis A. Dickerson
Executive Officer

cc: Please see next page.

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Mr. Eric Nemeth, Esqr.
Edwards & Angell, LLP
Former Weber Aircraft

- 6 -

April 9, 2004

Mr. Robert Sams, Office of Chief Counsel, State Water Resources Control Board
Ms. Sayareh Amirebrahimi, State Department of Toxic Substances Control, Glendale
Ms. Vera Melnyk Vecchio, California Department of Health Services
Mr. David Stensby, U. S. Environmental Protection Agency, Region IX
Mr. Mark Mackowski, Watermaster, Upper Los Angeles River Area (ULARA)
Mr. Roger Baker, City of Burbank

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APPENDIX B

**LOS ANGELES COUNTY WELL PERMITS
LITHOLOGIC BORING LOGS (Boring Logs on CD)**

DATE 11/3/06

<input type="checkbox"/> NEW WELL CONSTRUCTION <input type="checkbox"/> RECONSTRUCTION OR RENOVATION <input checked="" type="checkbox"/> DECOMMISSIONING <input type="checkbox"/> OTHER:	<input type="checkbox"/> MONITORING <input type="checkbox"/> CATHODIC <input type="checkbox"/> INJECTION <input type="checkbox"/> EXTRACTION	<input type="checkbox"/> HEAT EXCHANGE <input type="checkbox"/> Hydroponics <input type="checkbox"/> C.P.T. For Ground Water Sampling <input type="checkbox"/> Other, (Specify):
---	---	---

SITE ADDRESS 2820 N. ONTARIO STREET, CITY Burbank		ZIP CODE 91504
Nearest Intersection San Fernando Blvd & Tulare St.		Thomas Map Page / Grid T.G. 533, D4
NO. OF WELLS IN EACH PARCEL: 1 Attach site map with well locations		

Total Depth, Size and Depth of Well Casing	260' x 2"
Sanitary / Angular Sealing Material	Bentonite / Cement
Depth of Sanitary / Annular Seal	10'
Conductor Casing Seal	NA

Company	BURNS & Mc Donnell
Contact Person	Mitch McQuade
Address	393 E. Grand Ave., Suite J
City, State Zip Code	East San Francisco, CA 94080
Telephone	650 871-2926

Well Owner	P.H. Burghen Holdings, Inc.
Address	ONE HOUSTON CENTER, SUITE 700
City / Zip Code	Houston, TX 77010
Telephone	713 309-7794
Well Driller	Prosenac Corp
Address	12464 McCann Dr.
City / Zip Code	San Jose, CA 95004
C-57 License No.	756217
Telephone	562 906-1960

IF WELL AND GEOLOGIC CONDITIONS ENCOUNTERED IN THE FIELD ARE FOUND TO DIFFER FROM THE SCOPE OF WORK PRESENTED TO THIS OFFICE, WORK PLAN MODIFICATIONS MAY BE REQUIRED

DISPOSITION OF PERMIT (Department Use Only)
THIS PERMIT IS CONSIDERED COMPLETE WHEN THE WORK PLAN IS APPROVED AND WHEN THE WELL COMPLETION LOG IS RECEIVED. NO WELL CONSTRUCTION OR DECOMMISSIONING CAN BE INITIATED WITHOUT THE WORK PLAN APPROVAL FROM THIS DEPARTMENT

WELL PERMIT APPROVAL
This approval is valid for 180 days

Date REHS.

Conditions - I DO NOT KNOW WHICH WELL ARE YOU DE-COMMISSIONING
NO INDICATION ON LEGEND.
??? LET ME KNOW!!
CALL ME AT (626) 430-5398 8 TO 10 AM
TUESDAY THRU FRIDAY ONLY.

MICHAEL LUI, INSPECTOR
SW-4 WILL BE DECOMMISSIONED



Well Depth Log / Records	253'
Method of Well Assessment	ROTARY
Depth and Number of Perforations	0.02 at 193'
Type of Perforator Size of Perforations	SCREEN
Type and Amount of Sealant	bentonite 1x2' x 4'
Method of Upper Seal Pressure Application	Neat Cement, bentonite Start 179' - surface

I hereby agree to comply in every respect with all the regulations of the County Environmental Health Division and with all ordinances and laws of the County of Los Angeles and the State of California pertaining to well construction, reconstruction and decommissioning. Upon completion of the well and with in thirty days thereafter, I will furnish the Environmental Health office with a completion log of the well giving date drilled, depth of the well, perforations in the casing, and any other data deemed necessary by County Environmental Health Division.

Gary Messerotes
Applicant's Signature

Applicant Name (Print): GARY MESSEROTES
Fax Number: 650 871-2653 ✓

NOTICE

This well permit approval is limited to compliance with the California well standards and the Los Angeles County Health and Safety Code and does not grant any rights to construct, reconstruct, or decommission any well. Applicant is responsible for securing all other permits necessary to perform the work.

WELL PERMIT APPLICATION
WATER & SEWAGE / MOUNTAIN & RURAL PROGRAMS - ENVIRONMENTAL HEALTH DIVISION
 5050 COMMERCE DRIVE BALDWIN PARK, CA 91706 (626) 430-5380 FAX (626) 813-3016

DATE 11/3/06

<input checked="" type="checkbox"/> NEW WELL CONSTRUCTION <input type="checkbox"/> RECONSTRUCTION OR RENOVATION <input type="checkbox"/> DECOMMISSIONING <input type="checkbox"/> OTHER:	<input checked="" type="checkbox"/> MONITORING <u>4</u> <input type="checkbox"/> CATHODIC <input type="checkbox"/> INJECTION <input type="checkbox"/> EXTRACTION	<input type="checkbox"/> HEAT EXCHANGE <input type="checkbox"/> Hydropunch <input type="checkbox"/> C.P.T. For Ground Water Sampling <input type="checkbox"/> Other: (Specify):
---	---	--

SITE ADDRESS <u>2820 N. ONTARIO ST. Burbank</u> CITY		ZIP CODE <u>91504</u>
Nearest Intersection <u>SAN Fernando BLVD & TULARE ST.</u>		Thomas Bros. Page / Grid <u>533-D4</u>
NO. OF WELLS IN EACH PARCEL: <u>3</u> Attach site map with well locations		

Total Depth, Size and Depth of Well Casing	<u>260' x 2"</u>
Sanitary / Annular Sealing Material	<u>Bentonite / Cement</u>
Depth of Sanitary / Annular Seal	<u>10'</u>
Conductor Casing Seal	<u>NA</u>

Company	<u>BURNS & McDONNELL</u>
Contact Person	<u>MITCH MONROE</u>
Address	<u>393 E. GRAND AVE., SUITE J</u>
City, State Zip Code	<u>South SAN FRANCISCO, CA. 94090</u>
Telephone	<u>650-871-2926</u>

Well Owner	<u>P.H. Burbank Holdings, INC.</u>
Address	<u>ONE MONTEN CENTER, SUITE 700</u>
City / Zip Code	<u>Houston, Texas 77010</u>
Telephone	<u>713 309-7794</u>
Well Driller	<u>Prosonic Corp.</u>
Address	<u>12464 McCann Dr.</u>
City / Zip Code	<u>Santa Fe Springs, CA 90604</u>
C-57 License No.	<u>75217</u>
Telephone	<u>(562) 906-1960</u>

IF WELL AND GEOLOGIC CONDITIONS ENCOUNTERED IN THE FIELD ARE FOUND TO DIFFER FROM THE SCOPE OF WORK PRESENTED TO THIS OFFICE, WORK PLAN MODIFICATIONS MAY BE REQUIRED

DISPOSITION OF PERMIT (Department Use Only)
 THIS PERMIT IS CONSIDERED COMPLETE WHEN THE WORK PLAN IS APPROVED AND WHEN THE WELL COMPLETION LOG IS RECEIVED. NO WELL CONSTRUCTION OR DECOMMISSIONING CAN BE INITIATED WITHOUT THE WORK PLAN APPROVAL FROM THIS DEPARTMENT

WORK PLAN APPROVAL This Approval is valid for 90 Days	
Date <u>11-9-06</u>	REHS. <u>Mignon [Signature]</u>
Conditions -	
<u>CONSTRUCT THE WELLS A MINIMUM TEN (10) FEET HORIZONTALLY FROM SEWER AND/OR STORM DRAIN LINES (ON AND/OR OFF SITE LINES)</u>	
<u>ON 11/2/06 \$764 WERE PAID FOR PERMIT #689664 TO CONSTRUCT 3 WELLS, BM-6, BM-7 MW-4A AND DECOMMISSION OF (SW-4)</u>	
<u>ON 11/13/06 TILL 12/20/06</u>	

Well Depth Log / Records	
Method of Well Assessment	
Depth and Number of Perforations	
Type of Perforator Size of Perforations	
Type and Amount of Sealant	
Method of Upper Seal Pressure Application	

I hereby agree to comply in every respect with all the regulations of the County Environmental Health Division and with all ordinances and laws of the County of Los Angeles and the State of California pertaining to well construction, reconstruction and decommissioning. Upon completion of the well and with in thirty days thereafter, I will furnish the Environmental Health office with a completion log of the well giving date drilled, depth of the well, perforations in the casing, and any other data deemed necessary by County Environmental Health Division.

[Signature]
 Applicant's Signature

Applicant Name: (Print) GARY MESSEBOTES

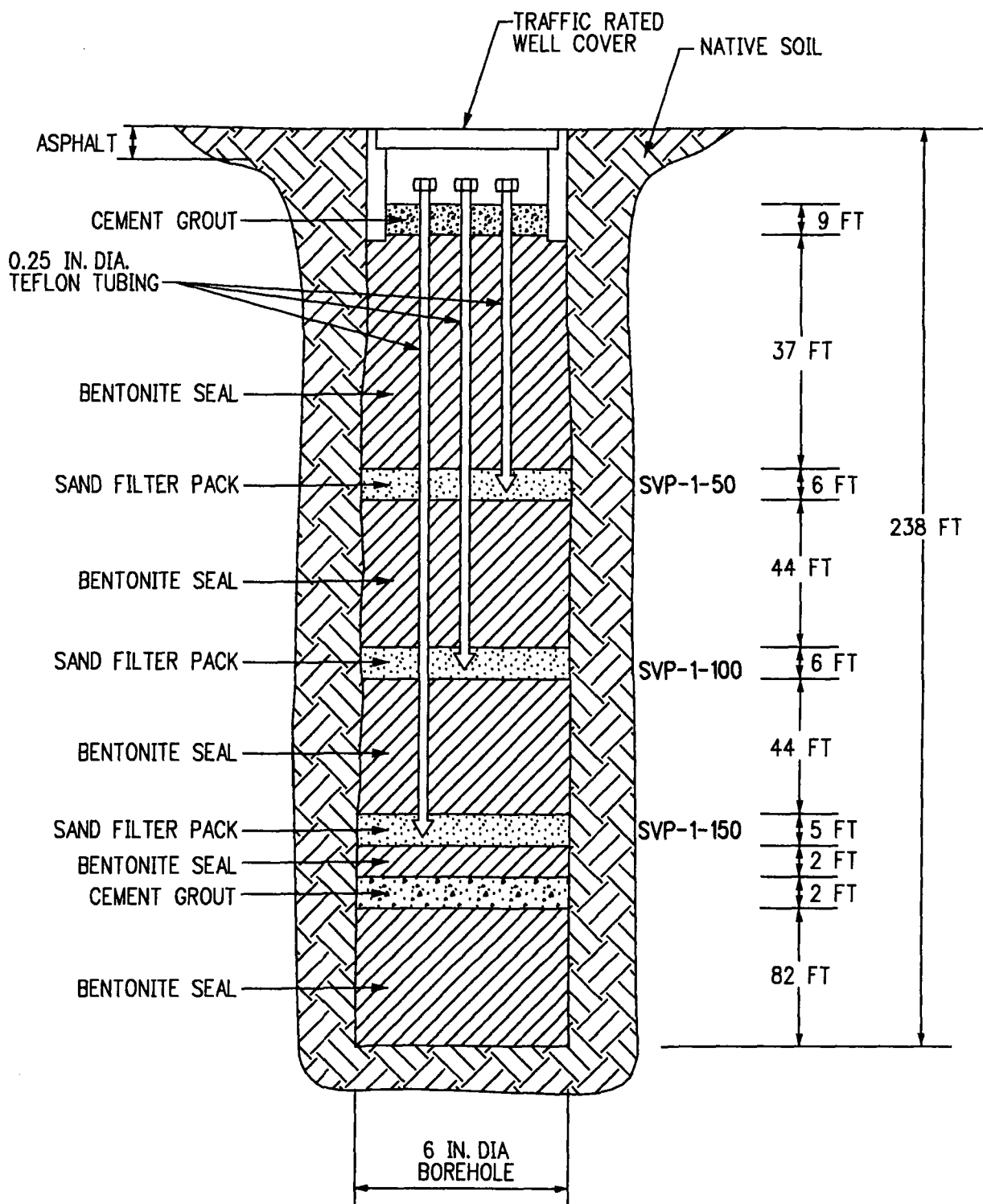
Fax Number: 650 871-2653 ✓

NOTICE

This well permit approval is limited to compliance with the California well standards and the Los Angeles County Health and Safety Code and does not grant any rights to construct, reconstruct, or decommission any well. Applicant is responsible for securing all other permits necessary to perform the work.

APPENDIX C

**CONSTRUCTION DETAILS FOR MULTI-LEVEL SOIL VAPOR PROBES AND
DUAL MULTI-LEVEL SOIL VAPOR PROBE AND GROUNDWATER
MONITORING WELLS**



NOT TO SCALE

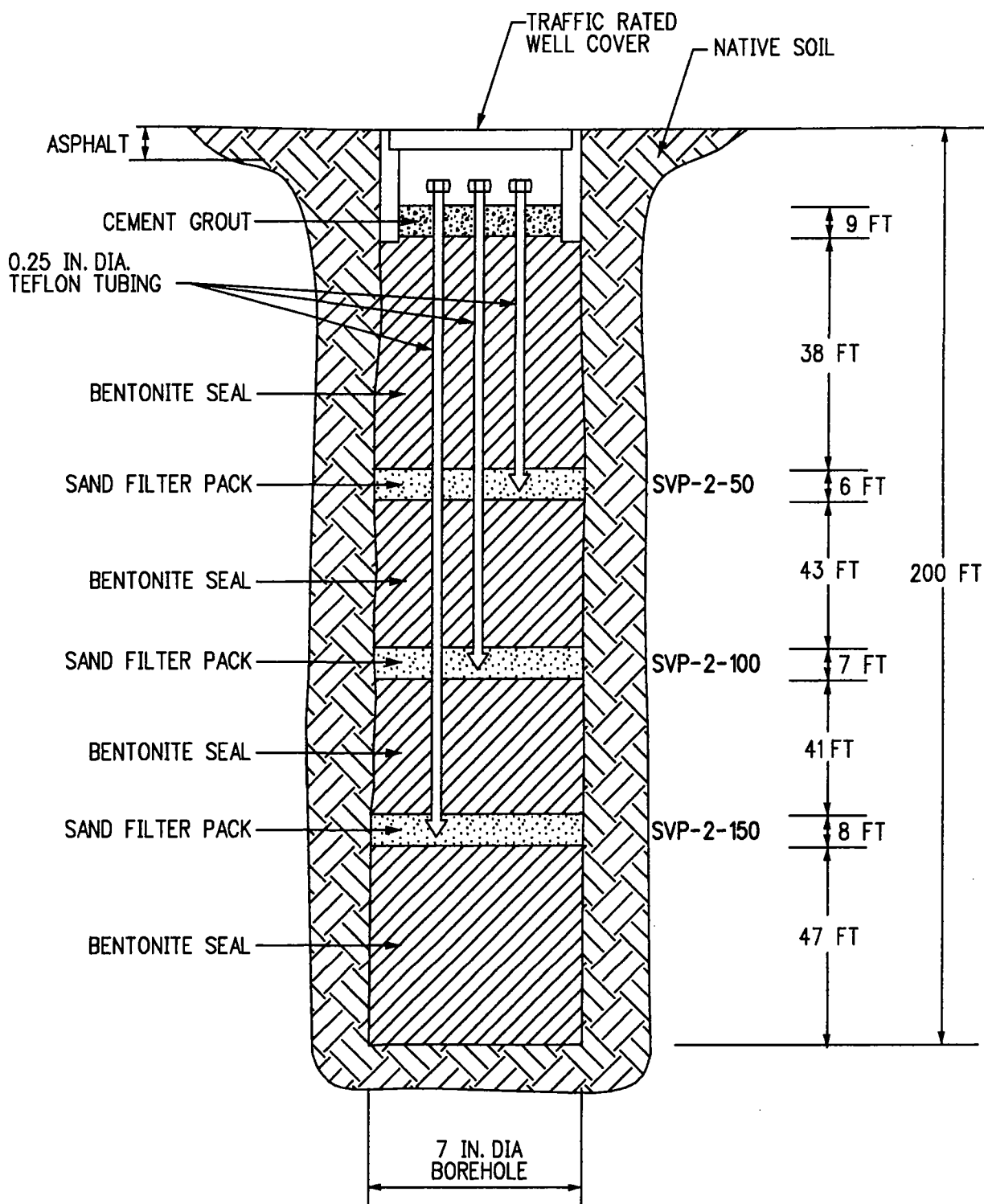
NOTE

SVP-1 INSTALLED ON NOVEMBER 18, 2006.



SVP-1 (BM-1)

MULTI-LEVEL SOIL VAPOR
PROBE CONSTRUCTION DIAGRAM
FORMER WEBER AIRCRAFT FACILITY
BURBANK, CA



NOT TO SCALE

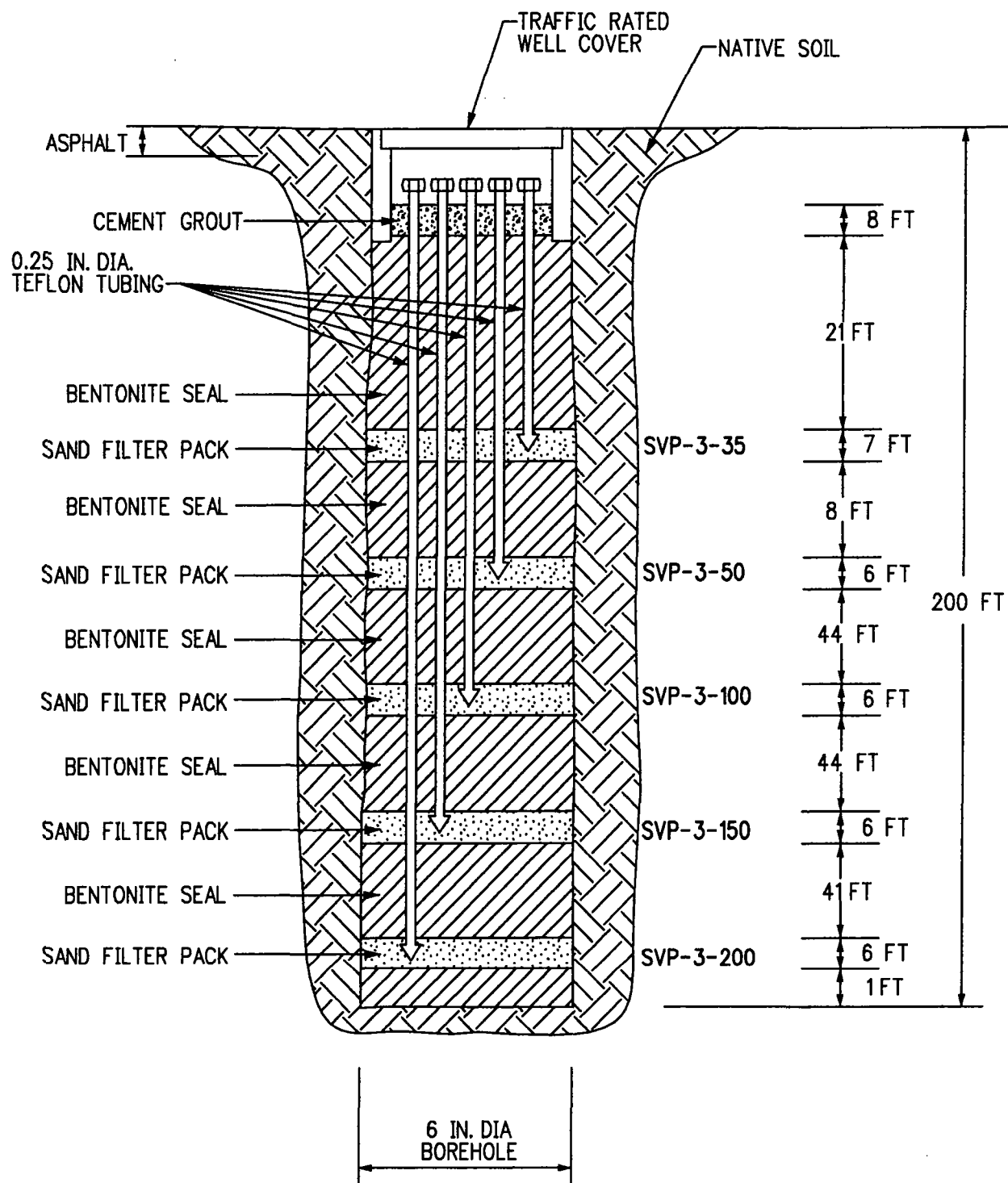
NOTE

SVP-2 INSTALLED ON DECEMBER 15, 2006.



SVP-2 (BM-2)

**MULTI-LEVEL SOIL VAPOR
PROBE CONSTRUCTION DIAGRAM
FORMER WEBER AIRCRAFT FACILITY
BURBANK, CA**



NOT TO SCALE

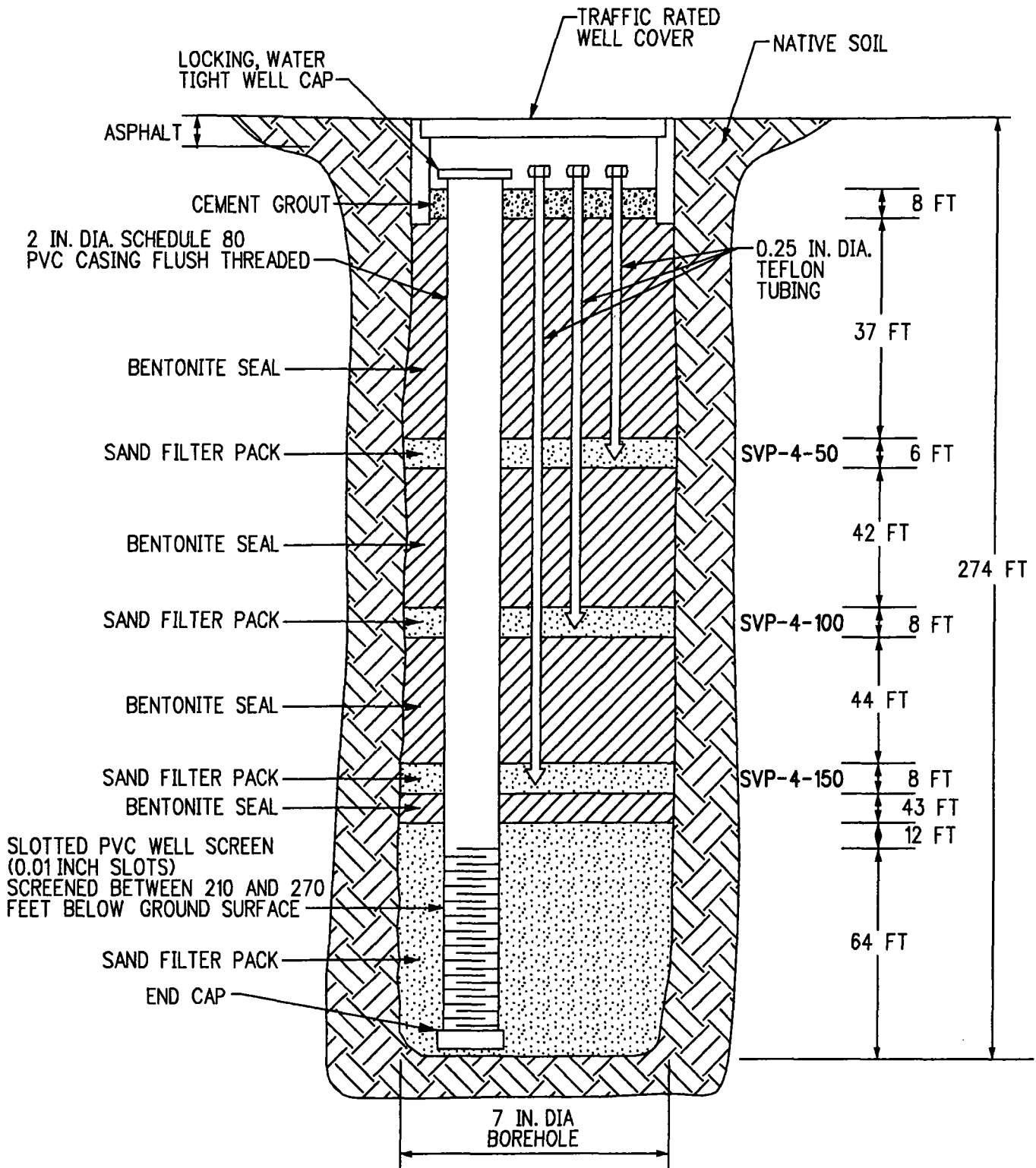
NOTE

SVP-3 INSTALLED ON DECEMBER 11, 2006



SVP-3 (BM-3)

**MULTI-LEVEL SOIL VAPOR
PROBE CONSTRUCTION DIAGRAM
FORMER WEBER AIRCRAFT FACILITY
BURBANK, CA**



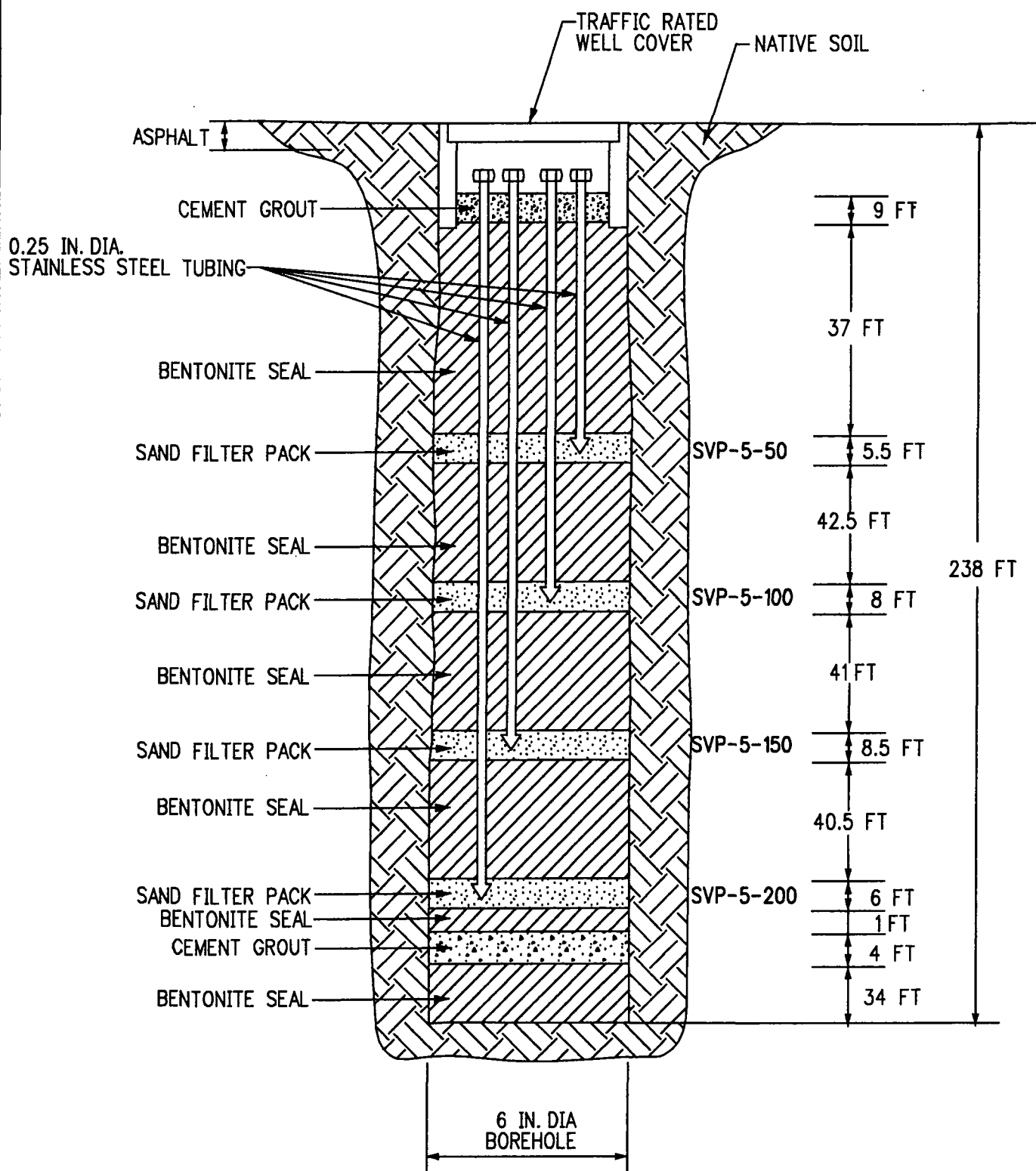
NOT TO SCALE

NOTE

MW-4A/SVP-4 INSTALLED ON JANUARY 3, 2007



MW-4A/SVP-4 (BM-4)
**DUAL MULTI-LEVEL SOIL VAPOR
 PROBE/GROUNDWATER MONITORING
 WELL CONSTRUCTION DIAGRAM
 FORMER WEBER AIRCRAFT FACILITY
 BURBANK, CA**



NOT TO SCALE

NOTE

SVP-5 INSTALLED ON NOVEMBER 27, 2006.

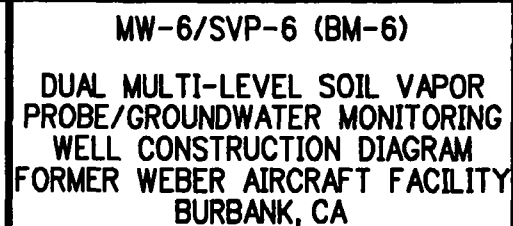


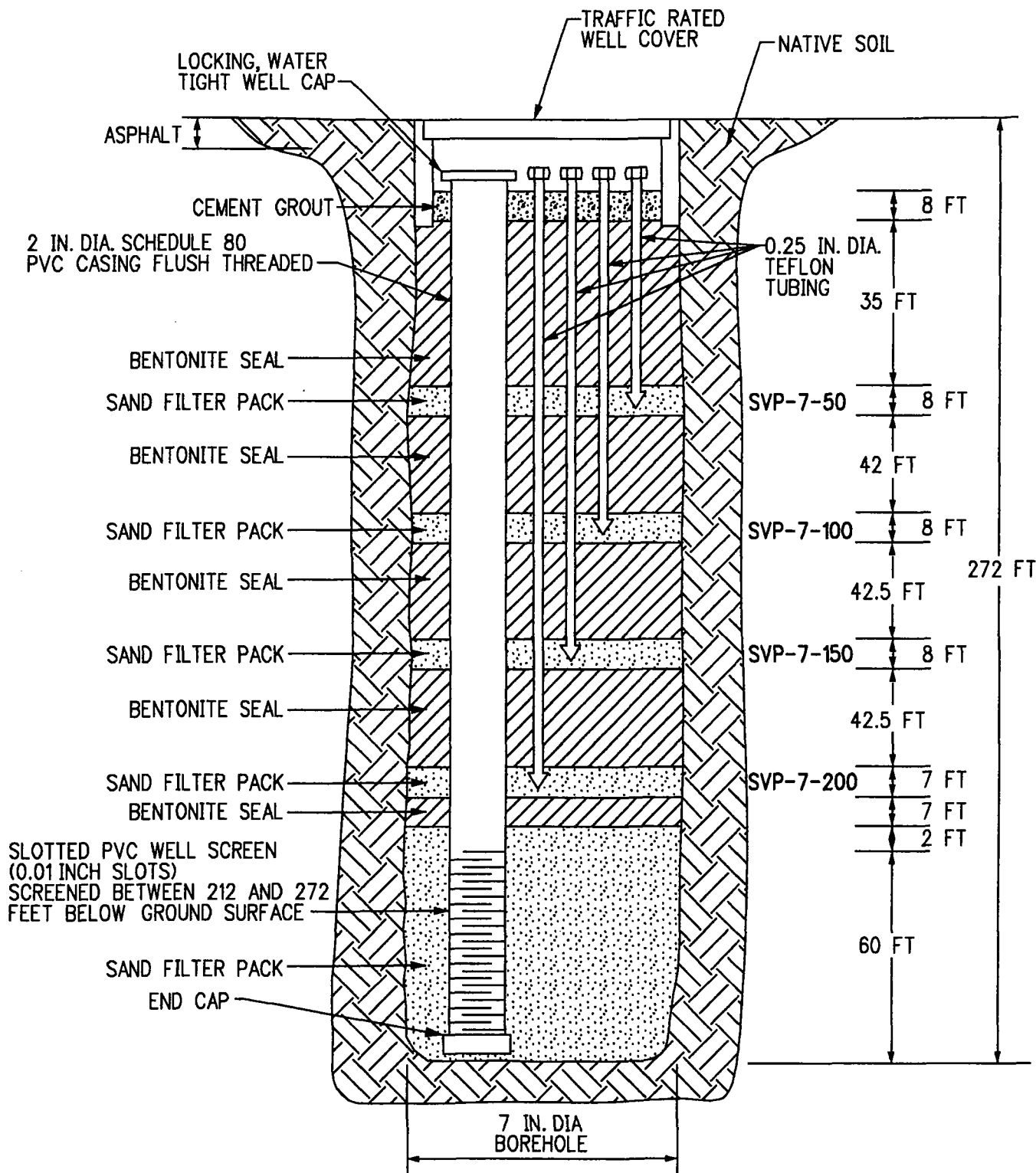
SVP-5 (BM-5)

MULTI-LEVEL SOIL VAPOR
PROBE CONSTRUCTION DIAGRAM
FORMER WEBER AIRCRAFT FACILITY
BURBANK, CA



MW-6/SVP-6 INSTALLED ON NOVEMBER 20, 2006.





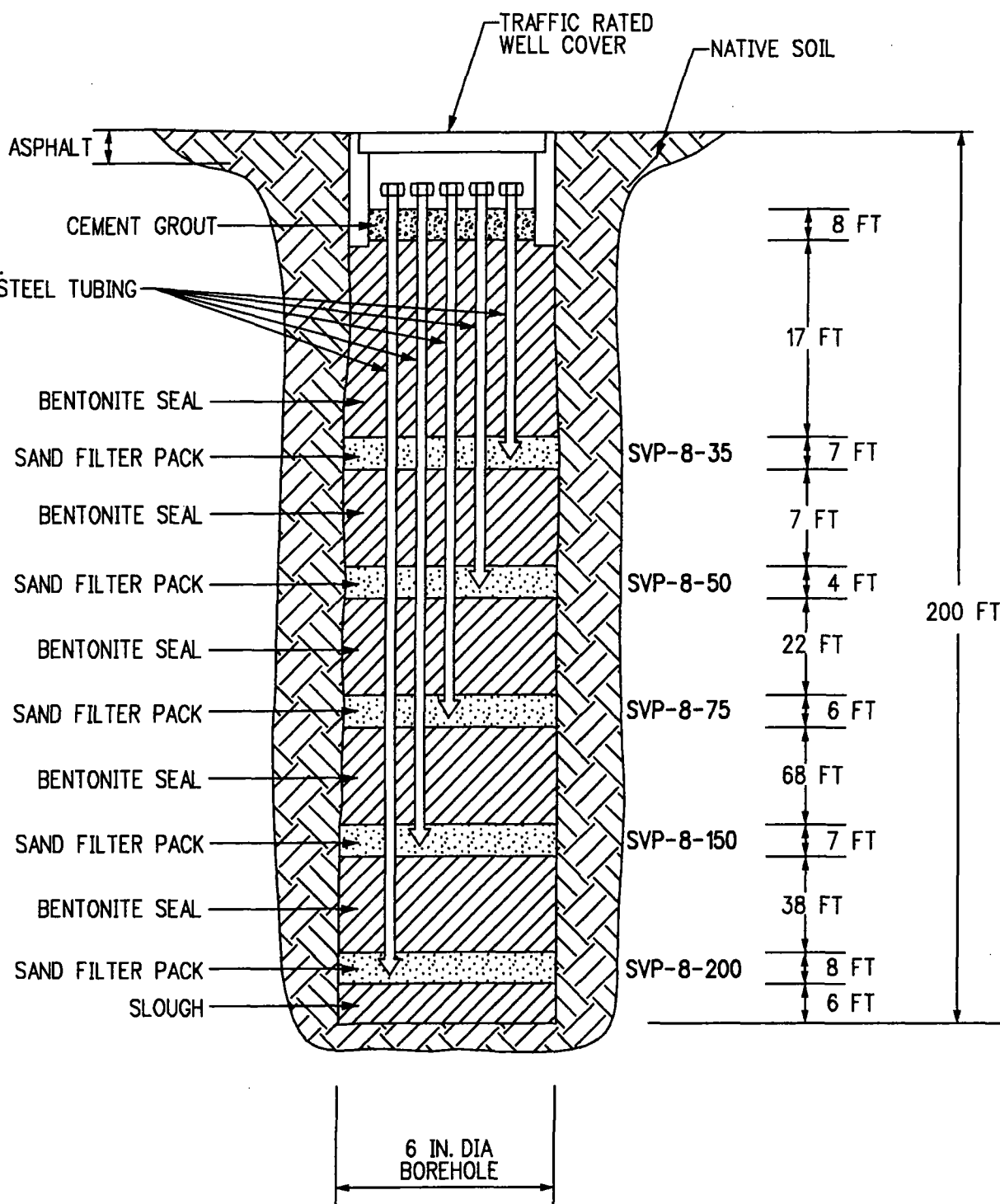
NOT TO SCALE

NOTE

MW-7/SVP-7 INSTALLED ON DECEMBER 3, 2006.



MW-7/SVP-7 (BM-7)
 DUAL MULTI-LEVEL SOIL VAPOR
 PROBE/GROUNDWATER MONITORING
 WELL CONSTRUCTION DIAGRAM
 FORMER WEBER AIRCRAFT FACILITY
 BURBANK, CA



NOT TO SCALE

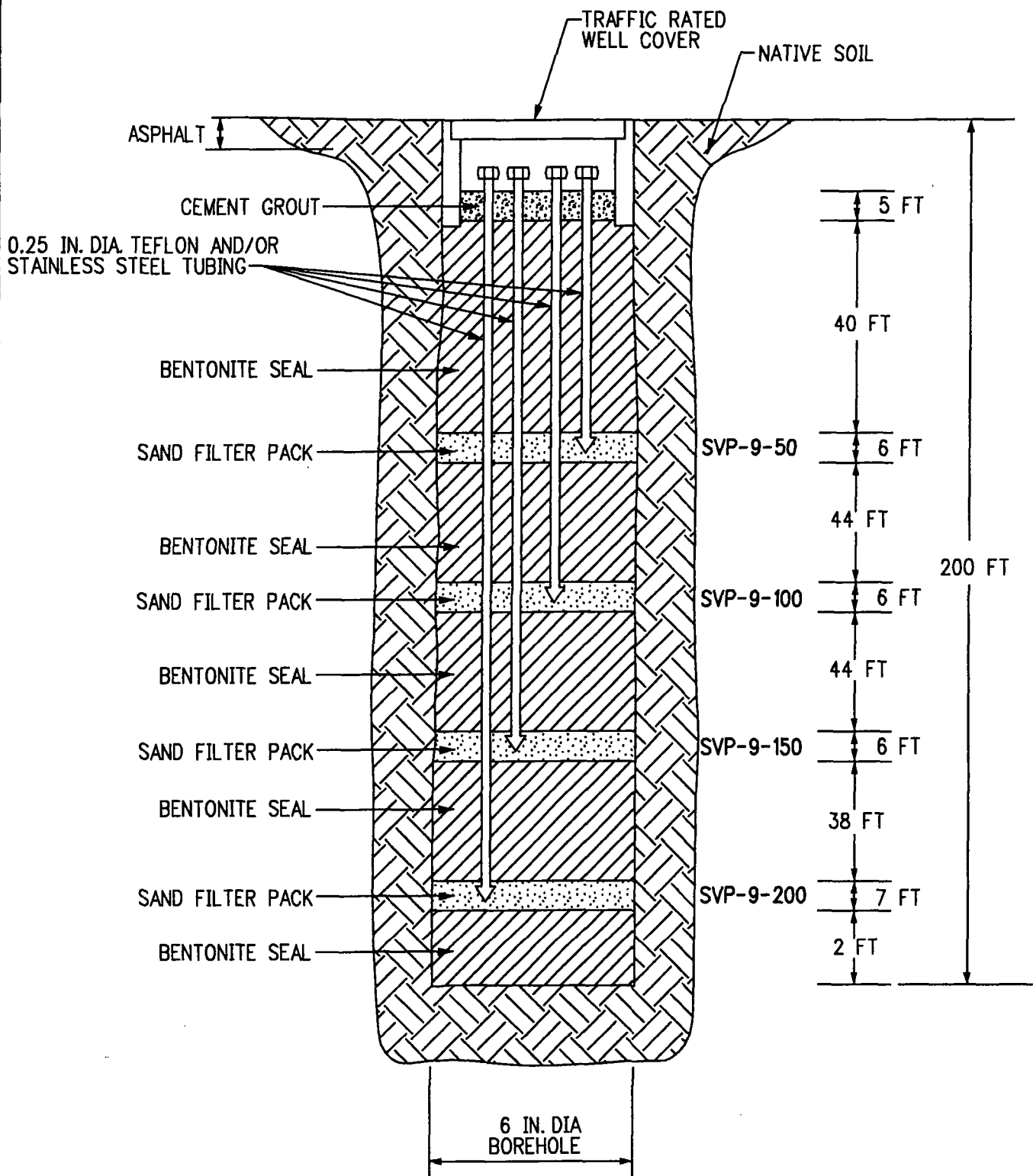
NOTE

SVP-8 INSTALLED ON DECEMBER 4, 2006.



SVP-8 (BM-8)

**MULTI-LEVEL SOIL VAPOR
PROBE CONSTRUCTION DIAGRAM
FORMER WEBER AIRCRAFT FACILITY
BURBANK, CA**



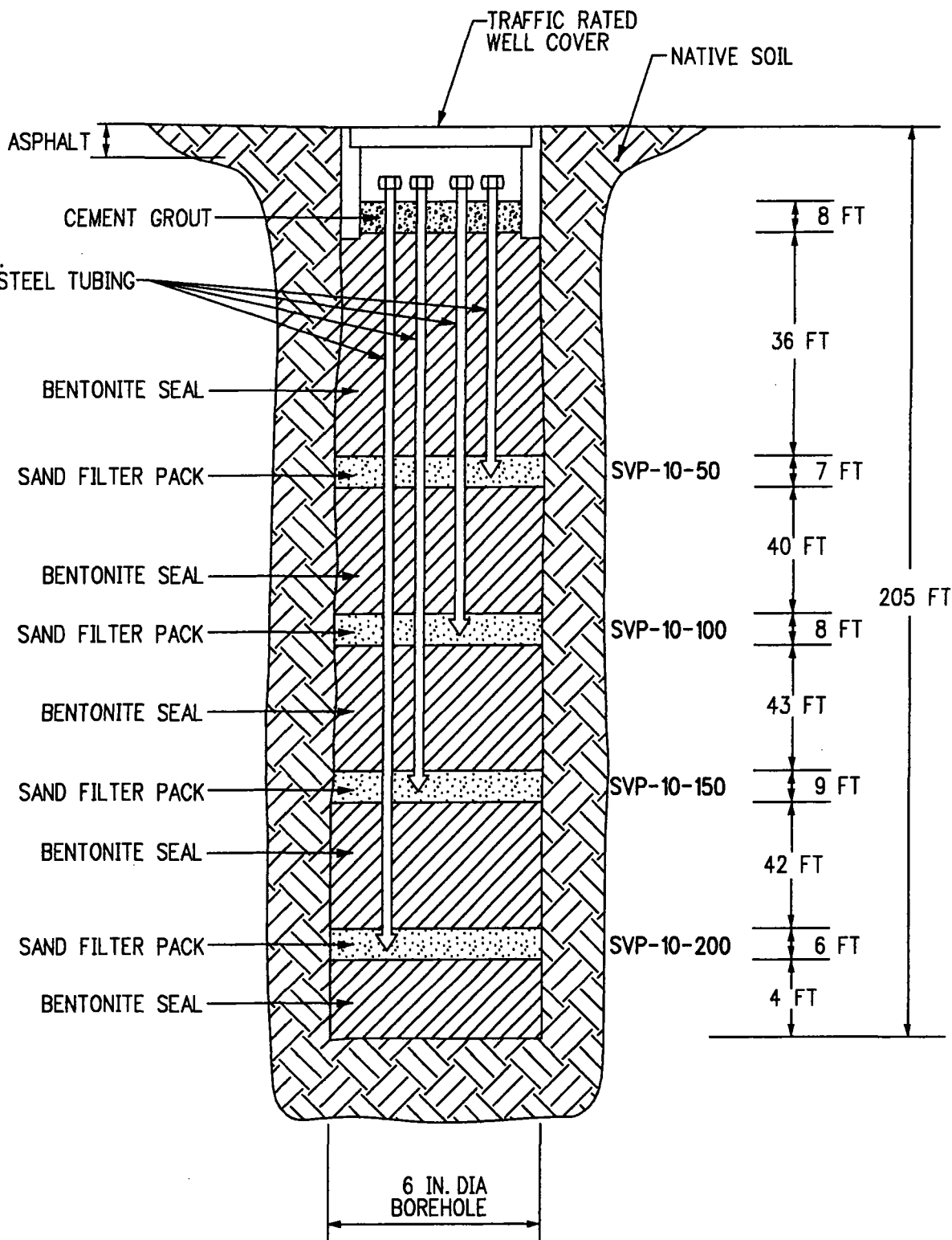
NOTE

SVP-9 INSTALLED ON DECEMBER 1, 2006.



SVP-9 (BM-9)

**MULTI-LEVEL SOIL VAPOR
PROBE CONSTRUCTION DIAGRAM
FORMER WEBER AIRCRAFT FACILITY
BURBANK, CA**



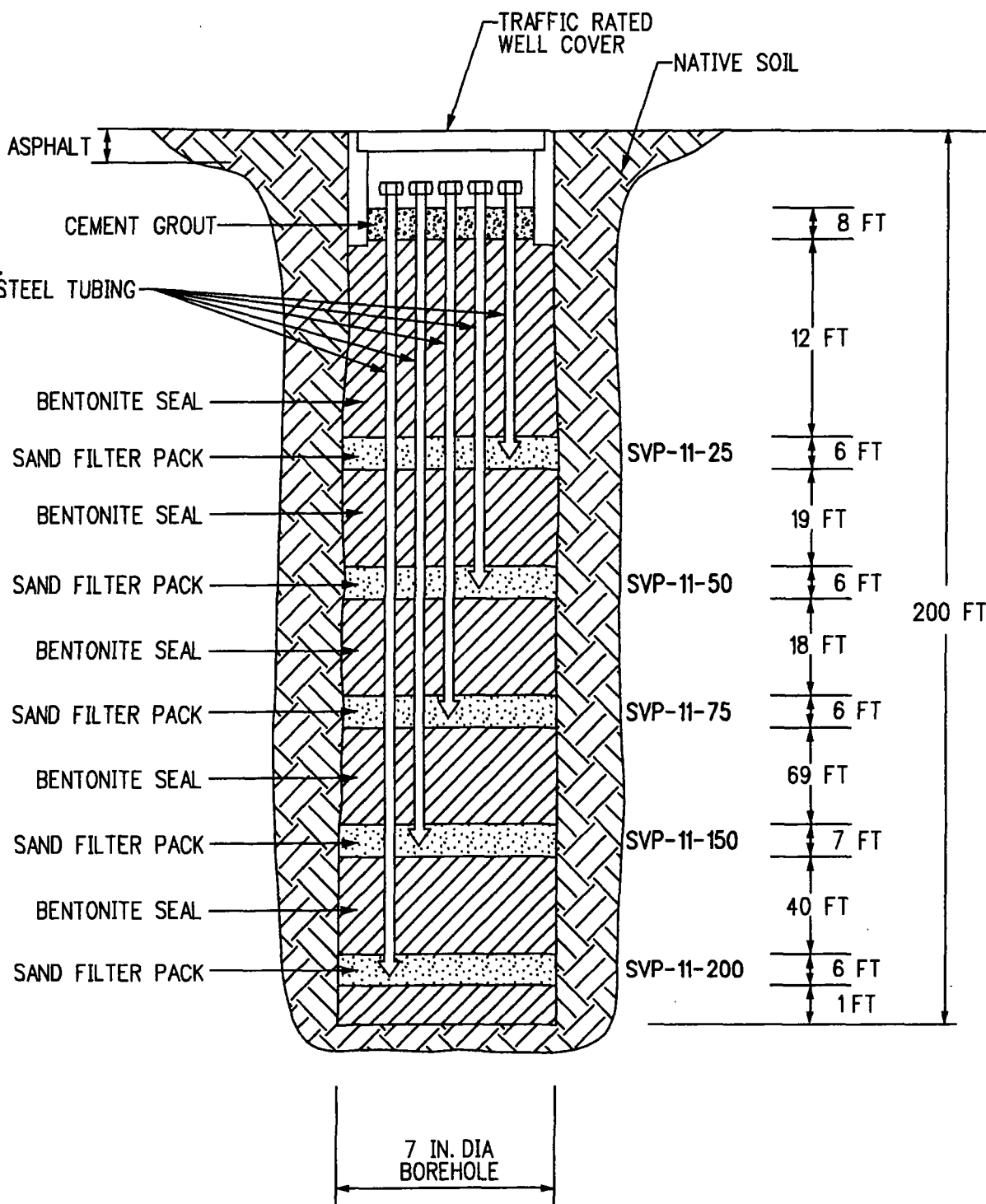
NOTE

SVP-10 INSTALLED ON DECEMBER 13, 2006.



SVP-10 (BM-10)

MULTI-LEVEL SOIL VAPOR
PROBE CONSTRUCTION
FORMER WEBER AIRCRAFT FACILITY
BURBANK, CA



NOT TO SCALE

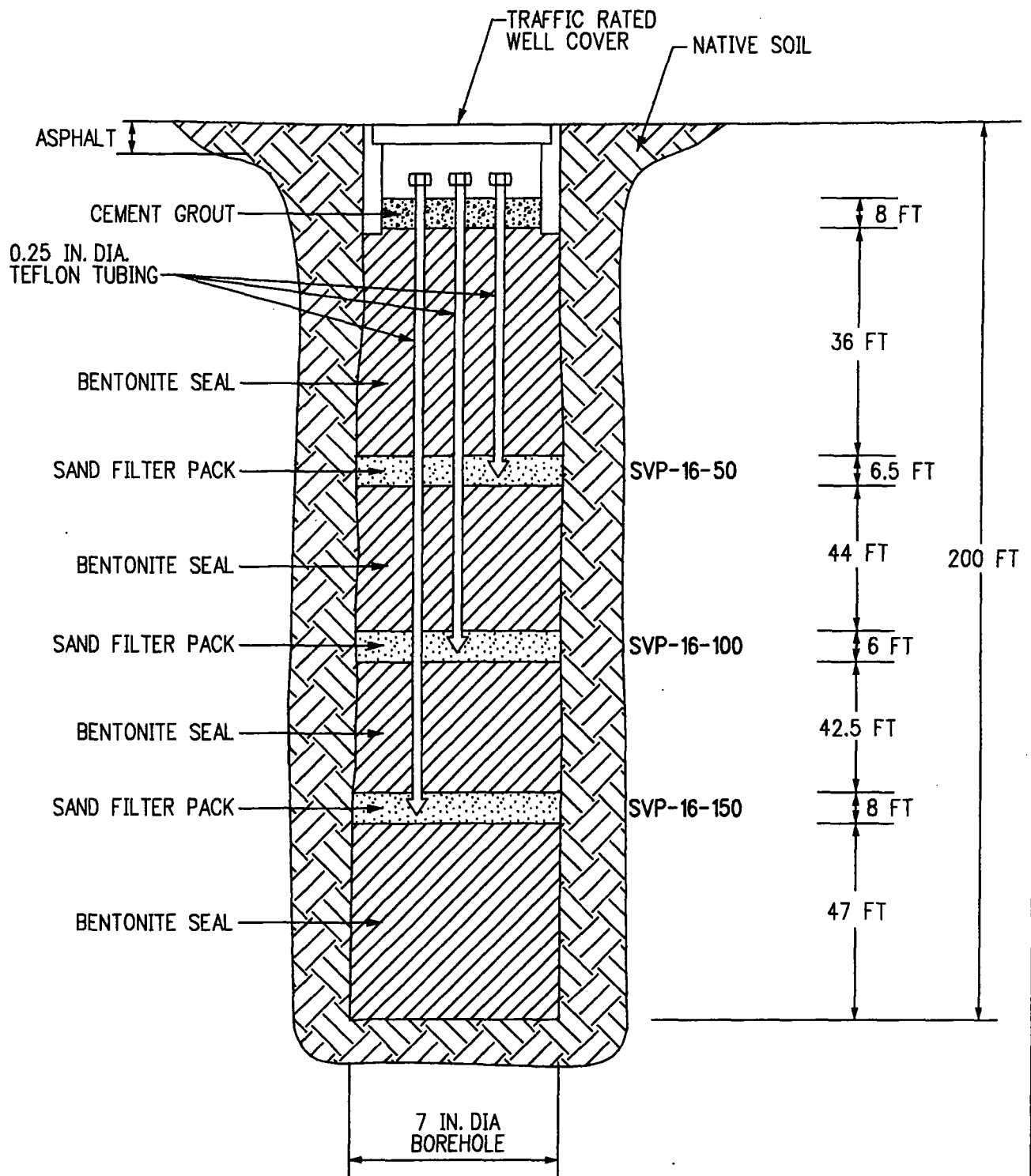
NOTE

SVP-11 INSTALLED ON DECEMBER 17, 2006.



SVP-11 (BM-11)

MULTI-LEVEL SOIL VAPOR
PROBE CONSTRUCTION DIAGRAM
FORMER WEBER AIRCRAFT FACILITY
BURBANK, CA



NOTE

SVP-16 INSTALLED ON DECEMBER 12, 2006.



SVP-16 (BM-16)

MULTI-LEVEL SOIL VAPOR
PROBE CONSTRUCTION DIAGRAM
FORMER WEBER AIRCRAFT FACILITY
BURBANK, CA

APPENDIX D

H&P MOBILE GEOCHEMISTRY STANDARD OPERATING PROCEDURES



Soil Vapor Standard Operating Procedures Fulfilling CA-EPA (DTSC) Soil Gas Advisory

Revision 3

June 2005

Prepared by:

H&P Mobile Geochemistry

Carlsbad, California

Soil Gas Sampling Procedures

Probe Construction and Insertion

Manually-Driven Probes

H&P's manually driven soil vapor probes are constructed of 0.625 inch outside diameter steel and equipped with a hardened steel tip. The probes are nominally 5 feet long and can be threaded together to reach a depth of 10 feet below ground surface. An inert 1/8 inch nylaflo tube is threaded down the center of the probe and connected to a sampling port just above the tip. This internal sample tubing design eliminates any contact between the sample port and the gas sample.

The probe is driven into the ground by an electric rotary hammer. Once inserted to the desired depth, the probe is rotated approximately 3 turns to open the tip and exposes the vapor sampling ports. This design prevents clogging of the sampling ports and cross-contamination from soils during insertion.

Hydraulically-Driven Probes

H&P's hydraulically-driven soil vapor probes are constructed of either 1.25 or 1.5 inch outside diameter steel and equipped with a hardened drop-off steel tip. The probes are nominally 4 feet long and threaded together to reach multiple depths. The probe is driven into the subsurface with H&P's *STRATAPROBE™* direct-push system. Once inserted to the desired depth, the probe is retracted slightly to expose the vapor sampling port. A small diameter inert tubing is then inserted through the center of the rod and threaded into a gas tight fitting just above the tip. After a sample is obtained the tubing is removed and the probe rod advanced to the next sampling depth or removed. This design prevents clogging of the sampling port and cross-contamination from soils during insertion.

Surface Seals

The probe rod is sealed at the surface with granular and hydrated bentonite for a minimum of 20 minutes before sampling.

Soil Gas Sampling

Soil vapor is withdrawn from the end of the inert nylaflow tubing that runs from the sampling tip to the surface using a 20 to 60 cubic centimeter (cc) syringe or gas tight canister (Summa) connected via an on-off valve (see diagram). The probe tip and sampling tubing is nominally purged of three to five internal dead volumes, or based upon a pre-determined purge volume established by a purge volume test described below. A sample of in-situ soil vapor is then withdrawn and immediately transferred to the mobile lab for analysis within minutes of collection. The use of small calibrated syringes allowed for careful monitoring of purge and sample volumes. This procedure ensures adequate sample flow is obtained without excessive pumping of air or introduction of surface air into the sample.

Purge Volume Test

If required, a site specific purge volume test is conducted at the beginning of the soil gas survey to purge ambient air from the sampling system. Three different volumes are sampled (nominally 1, 3, 7 purge volumes) and analyzed immediately to determine the volume amount with the highest concentration. Therefore, the optimum purge volume is achieved and used during the entire site investigation.

Use of Tracer Compound to Ensure Probe Seal Integrity

A tracer compound, typically difluoroethane, iso-propanol, or butane, is used to test for leaks around the probe barrel at the ground surface and in the sampling system. The tracer is placed around the base of the probe barrel and at the top of the probe barrel during sample collection. If the tracer is detected per CA-EPA advisory specifications, another sample is collected.

Sample Flow Rate

Sample collection is timed so that the flow rate does not exceed 200 ml/per minute. This is accomplished by withdrawing the plunger on the 60 cc syringe at a constant rate for 20 seconds. The collector notes the collection time on a logsheet, and also records any resistance to sample flow that is felt on the syringe during collection.

Summa Canister

Summa canisters are connected to the end of the nylaflow tubing to the same three way valve used with the syringe. A choke is placed on the canister to ensure that the flow rate is no more than 200 ml/ per minute into the summa canister.

Field Records

The field technician maintains a logsheet summarizing:

- Sample identification
- Probe location
- Date and time of sample collection
- Sampling depth
- Identity of samplers
- Weather conditions
- Sampling methods and devices
- Soil gas purge volumes
- Volume of soil gas extracted
- Observation of soil or subsurface characteristics (any condition that affects sample integrity)
- Apparent moisture content (dry, moist or saturated etc.) of the sampling zone
- Chain of custody protocols and records used to track samples from sampling point to analysis.

Analytical Methodology

The following analytical protocols fulfill both the CA-EPA advisory (2003) and LA-RWQCB soil gas analytical guidelines (1997).

Operating Conditions and Instrumentation

Volatile Organic Compounds (VOCs) by EPA 8260

Instrument: Hewlett-Packard 6890(6850)/5973 or 5890/5972 GCMS

Column: 25 meter HP-624, 0.20mm x 1.0u. capillary.

Carrier flow: Helium at 1.0 ml/min.

Detectors: Quadrupole MS, full scan mode

Concentrator: Tekmar 3000/Solatek 72

Volatile Organic Compounds (VOCs) by EPA TO-14 or TO-15

Instrument: Hewlett-Packard 6850/5973

Column: 60 meter HP-624, 0.32mm x 1.8u. capillary.

Carrier flow: Helium at 3.0 ml/min.

Detectors: Quadrupole MS, full scan mode

TO-14 Instrumentation: Entech 7100 Air Concentrator/Entech 7300 Autosampler

Fixed and Biogenic Gases (O₂, CO₂, & Methane)

Instrument: SRI 8610 or Carle AGC 311 Gas Chromatograph

Column: 6 foot CTR

Carrier flow: Helium at 15 ml/min.

Detectors: Thermoconductivity (TCD) for O₂ & CO₂.

Detectors: Flame ionization detector (FID) for methane.

Hydrogen Sulfide

Instrument: Jerome 631x

Detectors: Gold-film

Standard Preparation

Primary (stock) standards: Made from certified neat components or from traceable standards purchased from certified suppliers.

Secondary (working) Standards: Made by diluting primary standard. Typical concentrations are 1ug/ml, 10 ug/ml, and 50 ug/ml.

Laboratory Check Samples are prepared at the midpoint concentration from a standard purchased from a source different than the primary standards.

Lot numbers and preparations of all standards are recorded on a log sheet and kept in the mobile laboratory.

Gas Standards for TO-14A/15 analysis purchased from Spectra Gases, Branchburg, N.J. diluted from 1.0 ppmv to 10ppbv (for targets) and 1.0ppmv to 100ppbv (internal standards and surrogates)

Initial Multi-Point Calibration Curve

An initial calibration curve of a minimum of 3 points is performed either:

- At the start of the project.
- When the GC column or operating conditions have changed
- When the daily mid-point calibration check cannot meet the requirements as specified below.
- For TO-15 a five point calibration is used.

Calibration curves for each target component are prepared by analyzing low, mid, and high calibration standards covering the expected concentration range. The lowest standard concentration will not exceed 5 times the reporting limit for each compound.

A linearity check of the calibration curve for each compound is performed by computing a correlation coefficient and an average response factor. If a correlation coefficient of 0.990 or a percent relative standard deviation (%RSD) of $\pm 15\%$ is obtained, an average response factor is used over the entire calibration range. If the linearity criteria are not obtained, quantitation for that analyte is performed using a calibration curve.

After each initial multi-point calibration, the validity of the curve is further verified with a laboratory control standards (LCS) prepared at the mid-point of the calibration range. The LCS includes all target compounds and the response factor (RF) must fall within $\pm 20\%$ of the factor from the initial calibration curve.

Continuing Calibration (Daily Mid-point Calibration Check)

Continuing calibration standards prepared from a traceable source are analyzed at the beginning of each day. Acceptable continuing calibration agreement is set at $\pm 20\%$ to the average response factor from the calibration curve, except for freon, chloroethane, and vinyl chloride when a 25% agreement is required. When calibration checks fall outside this acceptable range for analytes detected on the site, corrective action, consisting of verification of the standard and/or a new calibration curve for the analytes out of specifications is performed by the on-site chemist.

The continuing calibration includes all compounds expected or detected at the site in addition to any specific compounds designated in the project workplan.

Detection Limits

Reporting limits for this program are defined as 5 times lower than the lowest concentration standard of the calibration curve, as follows:

Compound	Detector	Report Limit
VOCs by TO-14A/15	Mass Spec	1.0 to 5 ppbv
VOCs	Mass Spec	0.1 to 1 ug/l-vapor
Methane	FID	10 ppmv
Fixed Gases	TCD	0.1% by vol
H2S	Gold Film	0.10 ppmv

Injection of Soil Gas Samples

Vapor samples are withdrawn from the probe sampling syringe with a 5 cc syringe and injected with surrogates into a purge & trap instrument for VOC analysis. Separate aliquots are directly injected into gas chromatographs for fixed gases and methane analysis. The injection syringe is flushed 2 times with the sample prior to injection. Injection syringes are flushed several times with clean air or discarded between injections.

TO-14A/15 samples are taken into Summa or similar passivated canisters. Holding time for these canisters is 30 days.

Laboratory Data Logs

The field chemist maintains injection and sample analysis records including date and time of analysis, sampler's name, chemist's name, sample ID number, concentrations of compounds detected, calibration data, and any unusual conditions.

Quality Control Procedures

Compliance With Standards

Sampling and analytical procedures complied with the American Society for Testing and Materials' *Standard Guide for Soil Gas Monitoring in the Vadose Zone* (ASTM D5314-93), the LA-RWQCB Soil Gas Guidelines (Feb 1997 version), and the San Diego County SAM Soil Gas Guidelines (October, 2001).

Sampling Quality Control

Method Blanks

Prior to sampling each day, all components of the sampling system are checked for contamination by drawing ambient air from above ground through the sampling equipment, and injecting a sample into a gas chromatograph. The analysis results are compared to that of the ambient air and recorded in the data tables as blanks.

Sample Quality Control

Each sample is given a unique identification number specifying location and depth. Purge and sample volumes are monitored closely using small calibrated syringes to assure a proper flow of soil gas. This ensures a representative sample is obtained from the sample zone without excessive pumping, which could result in sampling of surface air.

Decontamination Procedures

To minimize the potential for cross-contamination between sites, all external soil vapor probe parts are wiped or washed cleaned of excess dirt and moisture with solvents or de-ionized water as appropriate. The probe's internal nylaflow tubing is purged with clean air between sampling locations or replaced as necessary. Sampling syringes are flushed with clean air after each use or replaced.

Corrective Action

Corrective action is taken when unexpected contaminant levels are detected. First duplicate samples are taken to verify the initial detection of petroleum hydrocarbons. If contamination is suspected, then the sample probes are disassembled, wiped cleaned of excess dirt and moisture, rinsed with deionized water, washed with Alconox and water, and rinsed again with

deionized water. The sample tubing in the probe is replaced. Contaminated sampling syringes are discarded.

Analytical Quality Control

Method Blanks

Method blanks are performed at the start of each day by drawing clean air through the sampling equipment and analyzing. These blanks verify all components of the sampling and analytical system are free of contamination. Additional blanks are performed more often as appropriate depending upon the measured concentrations, at a minimum 1 every 20 samples. The results of all blank analyses are recorded in the data tables. If a blank shows a measurable amount of any target compound, the on-site chemist will investigate and determine the source, and resolve the contamination problem prior to analyzing any samples.

Duplicate Samples

Duplicate (repetitive) analysis of a sample is performed when inconsistent data are observed, but at least one every 20 samples. Because soil vapor duplicates can vary widely, nominal relative percent difference (RPD) acceptance criteria is \pm a factor of 2.

Continuing Calibration (Daily Mid-point Calibration Check)

As described on page 5 of this document, continuing calibration standards prepared from a traceable source are analyzed at the beginning of each day.

The continuing calibration includes all compounds expected or detected at the site and any specific compounds designated in the project workplan.

Laboratory Check Samples (LCS)

Laboratory check samples, prepared at the midpoint concentration from a standard purchased from a source different than the calibration standards, are analyzed at the end of each day. Acceptance criteria is \pm 20% from the true value. If the LCS falls outside this acceptance range for analytes detected on site, corrective action, consisting of verification of the standard and/or a new calibration curve for the analytes out of specifications, is performed.

APPENDIX E

**ANALYTICAL REPORTS AND CHAIN OF CUSTODY DOCUMENTATION
FOR SOIL AND SOIL VAPOR (on CD)**

APPENDIX F

BURNS & MCDONNELL'S QA/QC REVIEW OF ANALYTICAL DATA



Date: March 31, 2007

To: Gary Messerotes

From: Sharon Shelton

Re: QA/QC Review of Analytical Data – Standard Analytical
Soil Samples for Deep Drilling Investigation
Burns & McDonnell Project Number 40641 (Former Weber Aircraft)

Soil samples were collected during the Weber Deep Drilling Investigation from November 2006 through January 2007 from borings associated with the Former Weber Aircraft facility. Samples were analyzed by Test America of Irvine, California (formerly DelMar Analytical) for one or more of the following parameters:

Analysis	Method
Soil Samples	
1,4-Dioxane	SW-846 Method 8270C Modified
1,2,3-Trichloropropane	SW-846 Method 8260B Modified
Title 22 / CAM 17 Metals Arsenic, antimony, barium, beryllium, cadmium, chromium, cobalt, copper, lead, molybdenum, nickel, selenium, silver, thallium, vanadium, and zinc	SW-846 Method 6010B
Mercury	SW-846 Method 7470A
Hexavalent Chromium	SW-846 Method 7199
Perchlorate	EPA 314.1
Cyanide, Total	SW-846 Method 7199
pH	SW-846 Method 9045C

The following data sets were reviewed in support of this investigation:

Data Set	Date Samples Collected	Data Set	Date Samples Collected
IPK1479	11/13/2006	IPL0374	12/5/2006
IPK1657	11/14/2006	IPL1316	12/11/2006 - 12/12/2006
IPK1834	11/14/2006 – 11/15/2006	IPL1335	12/12/2006
IPK2260	11/18/2006 – 11/19/2006	IPL1484	12/13/2006
IPK2372	11/20/2006	IPL1518	12/13/2006
IPK2494	11/21/2006	IPL1617	12/14/2006
IPK2822	11/27/2006	IPL1638	12/13/2006 – 12/14/2006
IPK2969	11/28/2006	IPL1848	12/14/2006 – 12/15/2006
IPK3105	11/28/2006 – 11/29/2006	IPL1849	12/15/2006
IPK3279	11/30/2006	IPL1922	12/15/2006 – 12/16/2006
IPL0116	12/1/2006	IPL1993	12/17/2006 – 12/18/2006
IPL0119	11/30/2006 – 12/1/2006	IPL1994	12/17/2006 – 12/18/2006
IPL0179	12/1/2006 – 12/2/2006	IQA0181	1/3/2007
IPL0257	12/2/2006 – 12/4/2006	IQA0306	1/4/2007
IPL0258	12/3/2006 – 12/4/2006	IQC0500	12/13/2006 – 12/18/2006



Memorandum
March 31, 2007
Page 2

The quality assurance/quality control (QA/QC) results in association with the samples were evaluated for achievement of any method-specific QA/QC criteria. Data qualifiers, when appropriate, were assigned according to the guidelines presented in *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review* (NFGO), 1999 or *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review* (NFGI), 2004. The QA/QC review results are discussed below. Table 1 presents a summary of data qualifiers that were assigned during the data review.

1. Chain-of-Custody – The chain-of-custody (COC) forms were appropriately signed.
2. Requested Analyses Completed – All samples were analyzed as requested on the COC.
3. Holding Times – Several samples for analysis of metals by SW-846 Method 6010B were held for analysis pending results of samples collected from shallower depths. Selected samples were released for analysis within the 6 month holding time. Except as noted in the following paragraphs, sample preparation and analyses were performed within the appropriate holding time:
 - The pH analysis for several soil samples were performed outside of the 24-hour method holding time. In many instances the analyses were performed within 48-hours of sample collection. Therefore, the data were qualified as estimated (J*) rather than rejected (R). The following samples required qualification:

pH Results Qualified as Estimated (J*) Due to Holding Time Exceedence			
Sample ID	Lab ID	Sample ID	Lab ID
BM-5-150	IPK3105-01	BM-10-25	IPL1993-05
BM-9-200	IPL0257-12	BM-10-30	IPL1993-06
BM-3-5	IPL1316-01	BM-10-35	IPL1993-07
BM-3-10	IPL1316-02	BM-10-50	IPL1993-08
BM-3-15	IPL1316-03	BM-10-100	IPL1993-09
BM-3-30	IPL1316-06	BM-10-150	IPL1993-10
BM-3-35	IPL1316-07	BM-11-5	IPL1994-01
BM-3-50	IPL1316-08	BM-11-10	IPL1994-02
DUP-D	IPL1316-09	BM-11-15	IPL1994-03
BM-3-200	IPL1484-01	BM-11-20	IPL1994-04
BM-12-35	IPL1617-07	BM-11-25	IPL1994-05
BM-12-50	IPL1848-01	BM-11-30	IPL1994-06
BM-10-5	IPL1993-01	DUP-7	IPL1994-08
BM-10-10	IPL1993-02	BM-11-50	IPL1994-09
BM-10-15	IPL1993-03	BM-11-100	IPL1994-10
BM-10-20	IPL1993-04	BM-11-150	IPL1994-11

All other sample preparation and analyses were performed within the appropriate holding times.

4. Sample Preservation – Except as noted in the following paragraphs, no problems were noted with sample preservation:

- Report IPK2260 – The sample cooler had a temperature of 10 °C upon receipt at the laboratory. This temperature was in excess of the USEPA recommended temperature maximum of 6 °C. To indicate potential low bias in the data, organic analysis results for the following samples were qualified as estimated (J*). Since 1,2,3-trichloropropane and 1,4-dioxane were not detected in the impacted samples, the reporting limits were qualified as estimated (UJ*):

Samples Qualified Estimated (UJ*) Due to Preservation Temperature		
Sample ID	Lab ID	Analyses
BM-1-15	IPK2260-03	1,2,3-Trichloropropane and 1,4-Dioxane
BM-1-30	IPK2260-06	1,2,3-Trichloropropane and 1,4-Dioxane
BM-1-50	IPK2260-08	1,2,3-Trichloropropane and 1,4-Dioxane
BM-1-100	IPK2260-09	1,2,3-Trichloropropane and 1,4-Dioxane
BM-1-150	IPK2260-10	1,2,3-Trichloropropane and 1,4-Dioxane
DUP-3	IPK2260-11	1,2,3-Trichloropropane

5. Laboratory Method Blanks – Method blanks were reviewed to determine the potential for sample cross contamination due to laboratory handling. Target compounds were not detected in the method blanks.
6. Surrogates – Surrogates are added for organic analyses. Surrogates are compounds not normally found in the environment that are added (spiked) into samples and analyzed for percent recovery (REC). Maximum and minimum limits on the REC are set by the laboratory for the method used. Unless noted in the following paragraphs, surrogate RECs were within QC limits.
 - BM-1-200 (Lab ID IPK2372-02), BM-5-50 (Lab ID IPK2969-01), and BM-8-115 (Lab ID IPL0257-10) for 1,4-Dioxane – Surrogate REC of 1,4-dioxane-d8 exceeded QC limits, which suggests potential high bias in the sample result. Since 1,4-dioxane was not detected in the impacted samples, high bias was not a concern. No data required qualification.
 - BM-10-150 (Lab ID IPL1993-10) for 1,2,3-Trichloropropane – Surrogate REC of dibromofluoromethane was below QC limits, which suggest potential low bias. 1,2,3-Trichloropropane was not detected in Sample BM-10-150, and the reporting limit was qualified as estimated (UJ*) to indicate the potential bias.
7. Laboratory Control Sample (LCS)/Laboratory Control Sample Duplicate (LCSD) – The LCS contains a matrix similar to that of the sample that has been spiked with known concentrations of target analytes. The LCS is prepared and analyzed by the same method as the samples. As a measure of analytical accuracy, the results of the LCS are compared against the known analyte concentrations in the spike to determine REC. The purpose of the LCS is to determine the performance of the laboratory with respect to analyte recovery, independent of field sample matrix interference. The LCSD is a duplicate preparation and analysis of the LCS. Results of the LCS and LCSD are compared to each other to determine analytical precision using the relative percent difference (RPD). LCS and/or LCSD results were within QC limits.

8. **Matrix Spike and Matrix Spike Duplicate (MS/MSD)** – MS and MSDs are typically run for organic and inorganic analyses to determine potential matrix effects upon analyte accuracy and precision. A sample is split into three portions (original, MS, and MSD), and a known amount of a target analyte is added (spiked) to two portions (MS and MSD) of the sample. The results are compared against the unspiked portion of the sample for REC of the spike and potential matrix effects. Additionally, the results are compared against each other using a RPD to determine reproducibility.

The following site-specific MS/MSD analyses were performed:

Site Samples used for MS/MSD Spiking			
Analysis	Sample Spiked for MS/MSD	Data Package	QC Batch
1,4-Dioxane	BM-15-150	IPL0119 IPL0179 IPL0257	6L06001
1,4-Dioxane	BM-8-30	IPL0257	6L06111
1,4-Dioxane	BM-3-150	IPL0374 IPL1316	6L14046
1,4-Dioxane	BM-3-200	IPL1484	6L18097
1,4-Dioxane	BM-11-150	IPL1922 IPL1994	6L20119
Metals (SW-846 Method 6010B)	BM-9-10	IPL0116	6L07150
Metals (SW-846 Method 6010B)	BM-7-10	IPL0258	6L05100
Metals (SW-846 Method 6010B)	BM-12-7	IPL1617	6L15106
Metals (SW-846 Method 6010B)	BM-2-25	IPL1849	6L18096
Metals (SW-846 Method 6010B)	BM-12-35	IQC0500	7C07083
Mercury	BM-9-10	IPL0116	6L08077
Mercury	BM-7-10	IPL0258	6L05106
Mercury	BM-8-150	IPL0374	6L13095
Mercury	BM-3-30	IPL1316	6L20090
Chromium, Hexavalent	BM-9-5	IPL0116 IPL0179 IPL0374	6L07076
Chromium, Hexavalent	BM-8-5	IPL0257	6L14105
Chromium, Hexavalent	BM-12-7	IPL1617 IPL1848 IPL1849	6L21075
Chromium, Hexavalent	BM-12-30	IPL1617	6L28095
Chromium, Hexavalent	BM-12-200	IPL1922 IPL1994	6L22079
Chromium, Hexavalent	DUP-7	IPL1994	6L27125
Cyanide, Total	BM-5-5	IPK2822	6L04110
Cyanide, Total	BM-9-5	IPL0116	6L05132
Cyanide, Total	BM-8-5	IPL0257	6L07143
Cyanide, Total	BM-12-7	IPL1617	6L18116
Cyanide, Total	BM-10-5	IPL1993 IPL1994	6L28121

Site Samples used for MS/MSD Spiking			
Analysis	Sample Spiked for MS/MSD	Data Package	QC Batch
Perchlorate	BM-14-100	IPK1657 IPK1834	6K18083
Perchlorate	BM-16-5	IPL1335 IPL1518	6L19111
Perchlorate	BM-16-150	IPL1638	6L20150
Perchlorate	MW-4A-5	IQA0181 IQA0306	7A10063

With the exception noted in the following paragraph, no problems were noted with the site-specific MS/MSD analyses.

- 1,4-Dioxane QC Batch 6L06001 – Low MSD REC was noted, which suggests the potential for low bias in the sample results. In addition, an elevated RPD was noted between the MS and MSD, suggesting potential precision problems. The 1,4-dioxane result for Sample BM-15-150 (Lab ID IPL0119-03), which was used as the MS/MSD spike, was qualified as estimated (J*) to indicate potential bias in the results.
- Metals QC Batch 6L05100 – Sample BM-7-10 was used as the MS/MSD spike sample. MS and MSD RECs of antimony were below QC limits, which suggest the potential for low bias. Antimony was not detected in BM-7-10 or the other samples in the batch. Therefore, the reporting limit for antimony was qualified as estimated (UJ*) as follows:

Undetected Antimony Results Qualified Estimated (UJ*) Due to Low MS/MSD RECs	
Sample ID	Lab ID
BM-7-5	IPL0258-01
BM-7-10	IPL0258-02
BM-7-15	IPL0258-03
BM-7-20	IPL0258-04
BM-7-25	IPL0258-05

- Metals QC Batch 6L15106 – Sample BM-12-7 was used as the MS/MSD spike sample. MS and MSD RECs of antimony were below QC limits, which suggest the potential for low bias. In addition, MSD REC of barium was below QC limits. Antimony was not detected in any of the samples within the batch, and the reporting limit was qualified as estimated (UJ*) to indicate potential bias. Additionally, barium was detected in each of the sample within batch 6L15106 and these detections were qualified as estimated (J*) to indicate potential low bias:

Undetected Antimony Results Qualified Estimated (UJ*) Due to Low MS/MSD RECs Barium Detections Qualified Estimated (J*) Due to Low MSD REC	
Sample ID	Lab ID
BM-12-7	IPL1617-01
BM-12-10	IPL1617-02
BM-12-15	IPL1617-03
BM-12-20	IPL1617-04



Undetected Antimony Results Qualified Estimated (UJ*) Due to Low MS/MSD RECs Barium Detections Qualified Estimated (J*) Due to Low MSD REC	
Sample ID	Lab ID
BM-12-25	IPL1617-05

- Metals QC Batch 6L18096 – Sample BM-2-25 was used as the MS/MSD spike sample. MS and MSD RECs of antimony were below QC limits, which suggest the potential for low bias. Antimony was not detected in any of the samples within the batch, and the reporting limit was qualified as estimated (UJ*) to indicate potential bias.

Undetected Antimony Results Qualified Estimated (UJ*) Due to Low MS/MSD RECs	
Sample ID	Lab ID
BM-2-5	IPL1849-01
BM-2-10	IPL1849-02
BM-2-15	IPL1849-03
BM-2-20	IPL1849-04
BM-2-25	IPL1849-05

- Metals QC Batch 7C07083 – Sample BM-12-35 was used as the MS/MSD spike sample. MS and MSD RECs of antimony were below QC limits, which suggest the potential for low bias. Antimony was not detected in any of the samples within the batch, and the reporting limit was qualified as estimated (UJ*) to indicate potential bias. In addition, the MSD REC of zinc was below QC limits. Zinc was detected in all of the associated samples, and these results were qualified as estimated (J*) to indicate potential low bias.

Undetected Antimony Results Qualified Estimated (UJ*) Due to Low MS/MSD RECs Zinc Detections Qualified Estimated (J*) Due to Low MSD REC			
Sample ID	Lab ID	Sample ID	Lab ID
BM-3-200	IQC0500-01	BM-10-200	IQC0500-09
BM-12-35	IQC0500-02	BM-11-30	IQC0500-10
BM-12-50	IQC0500-03	BM-11-35	IQC0500-11
BM-12-150	IQC0500-04	BM-11-50	IQC0500-12
BM-12-200	IQC0500-05	BM-11-100	IQC0500-13
BM-2-200	IQC0500-06	BM-11-150	IQC0500-14
BM-2-150	IQC0500-07	BM-11-200	IQC0500-15
BM-10-100	IQC0500-08		

- Hexavalent Chromium QC Batch 6L21075 – Sample BM-12-7 was used as the MS/MSD spike. Elevated MSD REC was noted, which indicates the potential for high bias. Since hexavalent chromium was not detected in samples associated with QC Batch 6L21075, high bias was not a concern. No data required qualification.
- Perchlorate QC Batch 7A10063 – Sample MW-4A-5 was used as the MS/MSD spike sample. The RPD between the MS and MSD exceeded QC limits, which suggests potential problems with analytical precision. Perchlorate was not detected in the associated samples. Therefore, the reporting limit was qualified as estimated (UJ*) to indicate the potential bias as follows:

Undetected Perchlorate Results Qualified Estimated (UJ*) Due to MS/MSD RPD	
Sample ID	Lab ID
MW-4A-5	IQA0181-01
MW-4A-50	IQA0181-02
MW-4A-100	IQA0181-03
MW-4A-150	IQA0306-01
MW-4A-200	IQA0306-02

In addition, the laboratory provided MS/MSD results that were performed using samples that were not collected from the Site. Since these samples would not be representative of potential matrix interference caused by site conditions, they were not used in the review of the data.

9. Field Duplicate Results – Tables 2 through 9 provide a summary of the field duplicate results. The following field duplicate samples were collected:

- BM-1-150 and DUP-3 (Table 2): 1,2,3-Trichloropropane was not detected in the primary sample or duplicate. All results were adequately replicated.
- BM-5-5 and DUP-A (Table 3): Results for chromium, copper, and vanadium were not adequately replicate. Data qualification was not required.
- BM-15-20 and BM-15-20-DUP4 (Table 4): Results for CAM-17 metals and hexavalent chromium were adequately replicated.
- BM-9-20 and DUP-B (Table 5) – Results for CAM-17 metals, hexavalent chromium, cyanide, and pH were adequately replicated. A detection of 1,2,3-trichloropropane in primary sample BM-9-20 was not replicated for duplicate DUP-B. Other QC data associated with the 1,2,3-trichloropropane analysis was within limits. No data required qualification.
- BM-8-115 and DUP-C (Table 6) – Results for mercury and pH were adequately replicated. The results for hexavalent chromium were not replicated. In particular, the result for DUP-C was higher than primary sample BM-8-115. Based on review of other QC information, the issue appeared limited to the duplicate pair. No data required qualification.
- BM-3-35 and DUP-D (Table 7) – Results for mercury, hexavalent chromium, and pH were adequately replicated.
- BM-16-30 and DUP-6 (Table 8) – Results for perchlorate were adequately replicated.
- BM-11-35 and DUP-7 (Table 9) – RPDs in excess of 35 percent were noted for barium, chromium, cobalt, copper, vanadium, and zinc. Results for the remaining CAM-17 metals and hexavalent chromium were adequately replicated. Based on review of other QC information, the issue appeared limited to the duplicate pair. No data required qualification.



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10. Detection and Quantitation Limits – Elevated reporting limits were not noted with the sample analyses.
11. Conclusion – No data were rejected as a result of the QA/QC data review. Table 1 presents a summary of data qualifiers assigned during the QA/QC review. The data should be used, as qualified, in reporting the results of this investigation.

Attachments

Table 1 – Data Qualifiers

Table 2 – Field Duplicate Results – BM-1-150 and DUP-3

Table 3 – Field Duplicate Results – BM-5-5 and DUP-A

Table 4 – Field Duplicate Results – BM-15-20 and BM-15-20-DUP4

Table 5 – Field Duplicate Results – BM-9-20 and DUP-B

Table 6 – Field Duplicate Results – BM-8-115 and DUP-C

Table 7 – Field Duplicate Results – BM-3-35 and DUP-D

Table 8 – Field Duplicate Results – BM-16-30 and DUP-6

Table 9 – Field Duplicate Results – BM-11-35 and DUP-7

**Table 1
Data Qualifiers
Former Weber Aircraft**

Sample Name	Sample Matrix	Lab	Data Package	Laboratory Number	Analysis	Target Analyte	Qualifier Added	Reason for Qualification
Data Packages - No Data Review Qualifiers Needed								
		TA - Irvine	IPK1479				None	No data qualifiers for this package.
		TA - Irvine	IPK1657				None	No data qualifiers for this package.
		TA - Irvine	IPK1834				None	No data qualifiers for this package.
		TA - Irvine	IPK2372				None	No data qualifiers for this package.
		TA - Irvine	IPK2494				None	No data qualifiers for this package.
		TA - Irvine	IPK2822				None	No data qualifiers for this package.
		TA - Irvine	IPK2969				None	No data qualifiers for this package.
		TA - Irvine	IPK3279				None	No data qualifiers for this package.
		TA - Irvine	IPL0116				None	No data qualifiers for this package.
		TA - Irvine	IPL0179				None	No data qualifiers for this package.
		TA - Irvine	IPL0374				None	No data qualifiers for this package.
		TA - Irvine	IPL1335				None	No data qualifiers for this package.
		TA - Irvine	IPL1518				None	No data qualifiers for this package.
		TA - Irvine	IPL1638				None	No data qualifiers for this package.
		TA - Irvine	IPL1922				None	No data qualifiers for this package.
Data Packages - Data Review Qualifiers Needed								
BM-1-15	Soil	TA - Irvine	IPK2260	IPK2260-03	VOC SVOC	1,2,3-Trichloropropane 1,4-Dioxane	UJ* UJ*	Received by lab at 10°C. Sample non-detect, estimated reporting limit. Received by lab at 10°C. Sample non-detect, estimated reporting limit.
BM-1-30	Soil	TA - Irvine	IPK2260	IPK2260-06	VOC SVOC	1,2,3-Trichloropropane 1,4-Dioxane	UJ* UJ*	Received by lab at 10°C. Sample non-detect, estimated reporting limit. Received by lab at 10°C. Sample non-detect, estimated reporting limit.
BM-1-50	Soil	TA - Irvine	IPK2260	IPK2260-08	VOC SVOC	1,2,3-Trichloropropane 1,4-Dioxane	UJ* UJ*	Received by lab at 10°C. Sample non-detect, estimated reporting limit. Received by lab at 10°C. Sample non-detect, estimated reporting limit.
BM-1-100	Soil	TA - Irvine	IPK2260	IPK2260-09	VOC SVOC	1,2,3-Trichloropropane 1,4-Dioxane	UJ* UJ*	Received by lab at 10°C. Sample non-detect, estimated reporting limit. Received by lab at 10°C. Sample non-detect, estimated reporting limit.
BM-1-150	Soil	TA - Irvine	IPK2260	IPK2260-10	VOC SVOC	1,2,3-Trichloropropane 1,4-Dioxane	UJ* UJ*	Received by lab at 10°C. Sample non-detect, estimated reporting limit. Received by lab at 10°C. Sample non-detect, estimated reporting limit.
DUP-3	Soil	TA - Irvine	IPK2260	IPK2260-11	VOC	1,2,3-Trichloropropane	UJ*	Received by lab at 10°C. Sample non-detect, estimated reporting limit.
BM-5-150	Soil	TA - Irvine	IPK3105	IPK3105-01	GENCHEM	pH	J*	Submitted to lab and analyzed outside of holding time.
BM-15-150	Soil	TA - Irvine	IPL0119	IPL0119-03	SVOC	1,4-Dioxane	UJ*	Low MSD REC and elevated RPD. Sample non-detect.

Table 1
Data Qualifiers
Former Weber Aircraft

Sample Name	Sample Matrix	Lab	Data Package	Laboratory Number	Analysis	Target Analyte	Qualifier Added	Reason for Qualification
Data Packages - Data Review Qualifiers Needed								
BM-9-200	Soil	TA - Irvine	IPL0257	IPL0257-12	GENCHEM	pH	J*	Submitted to lab and analyzed outside of holding time.
BM-7-5	Soil	TA - Irvine	IPL0258	IPL0258-01	METAL	Antimony	UJ*	Low MS/MSD RECs. Sample non-detect, estimated reporting limit.
BM-7-10	Soil	TA - Irvine	IPL0258	IPL0258-02	METAL	Antimony	UJ*	Low MS/MSD RECs. Sample non-detect, estimated reporting limit.
BM-7-15	Soil	TA - Irvine	IPL0258	IPL0258-03	METAL	Antimony	UJ*	Low MS/MSD RECs. Sample non-detect, estimated reporting limit.
BM-7-20	Soil	TA - Irvine	IPL0258	IPL0258-04	METAL	Antimony	UJ*	Low MS/MSD RECs. Sample non-detect, estimated reporting limit.
BM-7-25	Soil	TA - Irvine	IPL0258	IPL0258-05	METAL	Antimony	UJ*	Low MS/MSD RECs. Sample non-detect, estimated reporting limit.
BM-3-5	Soil	TA - Irvine	IPL1316	IPL1316-01	GENCHEM	pH	J*	Submitted to lab and analyzed outside of holding time.
BM-3-10	Soil	TA - Irvine	IPL1316	IPL1316-02	GENCHEM	pH	J*	Submitted to lab and analyzed outside of holding time.
BM-3-15	Soil	TA - Irvine	IPL1316	IPL1316-03	GENCHEM	pH	J*	Submitted to lab and analyzed outside of holding time.
BM-3-30	Soil	TA - Irvine	IPL1316	IPL1316-06	GENCHEM	pH	J*	Submitted to lab and analyzed outside of holding time.
BM-3-35	Soil	TA - Irvine	IPL1316	IPL1316-07	GENCHEM	pH	J*	Submitted to lab and analyzed outside of holding time.
BM-3-50	Soil	TA - Irvine	IPL1316	IPL1316-08	GENCHEM	pH	J*	Submitted to lab and analyzed outside of holding time.
DUP-D	Soil	TA - Irvine	IPL1316	IPL1316-09	GENCHEM	pH	J*	Submitted to lab and analyzed outside of holding time.
BM-3-200	Soil	TA - Irvine	IPL1484	IPL1484-01	GENCHEM	pH	J*	Analyzed outside of holding time.
BM-12-7	Soil	TA - Irvine	IPL1617	IPL1617-01	METAL METAL	Antimony Barium	UJ* J*	Low MS/MSD RECs. Sample non-detect, estimated reporting limit. Low MSD REC. Sample has detect.
BM-12-10	Soil	TA - Irvine	IPL1617	IPL1617-02	METAL METAL	Antimony Barium	UJ* J*	Low MS/MSD RECs. Sample non-detect, estimated reporting limit. Low MSD REC. Sample has detect.
BM-12-15	Soil	TA - Irvine	IPL1617	IPL1617-03	METAL METAL	Antimony Barium	UJ* J*	Low MS/MSD RECs. Sample non-detect, estimated reporting limit. Low MSD REC. Sample has detect.

**Table 1
Data Qualifiers
Former Weber Aircraft**

Sample Name	Sample Matrix	Lab	Data Package	Laboratory Number	Analysis	Target Analyte	Qualifier Added	Reason for Qualification
Data Packages - Data Review Qualifiers Needed								
BM-12-20	Soil	TA - Irvine	IPL1617	IPL1617-04	METAL METAL	Antimony Barium	UJ* J*	Low MS/MSD RECs. Sample non-detect, estimated reporting limit. Low MSD REC. Sample has detect.
BM-12-25	Soil	TA - Irvine	IPL1617	IPL1617-05	METAL METAL	Antimony Barium	UJ* J*	Low MS/MSD RECs. Sample non-detect, estimated reporting limit. Low MSD REC. Sample has detect.
BM-12-35	Soil	TA - Irvine	IPL1617	IPL1617-07	GENCHEM	pH	J*	Analyzed outside of holding time.
BM-12-50	Soil	TA - Irvine	IPL1848	IPL1848-01	GENCHEM	pH	J*	Analyzed outside of holding time.
BM-2-5	Soil	TA - Irvine	IPL1849	IPL1849-01	METAL	Antimony	UJ*	Low MS/MSD RECs. Sample non-detect, estimated reporting limit.
BM-2-10	Soil	TA - Irvine	IPL1849	IPL1849-02	METAL	Antimony	UJ*	Low MS/MSD RECs. Sample non-detect, estimated reporting limit.
BM-2-15	Soil	TA - Irvine	IPL1849	IPL1849-03	METAL	Antimony	UJ*	Low MS/MSD RECs. Sample non-detect, estimated reporting limit.
BM-2-20	Soil	TA - Irvine	IPL1849	IPL1849-04	METAL	Antimony	UJ*	Low MS/MSD RECs. Sample non-detect, estimated reporting limit.
BM-2-25	Soil	TA - Irvine	IPL1849	IPL1849-05	METAL	Antimony	UJ*	Low MS/MSD RECs. Sample non-detect, estimated reporting limit.
BM-10-5	Soil	TA - Irvine	IPL1993	IPL1993-01	GENCHEM	pH	J*	Submitted to lab and analyzed outside of holding time.
BM-10-10	Soil	TA - Irvine	IPL1993	IPL1993-02	GENCHEM	pH	J*	Submitted to lab and analyzed outside of holding time.
BM-10-15	Soil	TA - Irvine	IPL1993	IPL1993-03	GENCHEM	pH	J*	Submitted to lab and analyzed outside of holding time.
BM-10-20	Soil	TA - Irvine	IPL1993	IPL1993-04	GENCHEM	pH	J*	Submitted to lab and analyzed outside of holding time.
BM-10-25	Soil	TA - Irvine	IPL1993	IPL1993-05	GENCHEM	pH	J*	Submitted to lab and analyzed outside of holding time.
BM-10-30	Soil	TA - Irvine	IPL1993	IPL1993-06	GENCHEM	pH	J*	Submitted to lab and analyzed outside of holding time.
BM-10-35	Soil	TA - Irvine	IPL1993	IPL1993-07	GENCHEM	pH	J*	Submitted to lab and analyzed outside of holding time.
BM-10-50	Soil	TA - Irvine	IPL1993	IPL1993-08	GENCHEM	pH	J*	Submitted to lab and analyzed outside of holding time.
BM-10-100	Soil	TA - Irvine	IPL1993	IPL1993-09	GENCHEM	pH	J*	Submitted to lab and analyzed outside of holding time.

**Table 1
Data Qualifiers
Former Weber Aircraft**

Sample Name	Sample Matrix	Lab	Data Package	Laboratory Number	Analysis	Target Analyte	Qualifier Added	Reason for Qualification
Data Packages - Data Review Qualifiers Needed								
BM-10-150	Soil	TA - Irvine	IPL1993	IPL1993-10	GENCHEM VOC	pH 1,2,3-Trichloropropane	J* UJ*	Submitted to lab and analyzed outside of holding time. Low surrogate REC. Sample non-detect, estimated reporting limit.
BM-11-5	Soil	TA - Irvine	IPL1994	IPL1994-01	GENCHEM	pH	J*	Submitted to lab and analyzed outside of holding time.
BM-11-10	Soil	TA - Irvine	IPL1994	IPL1994-02	GENCHEM	pH	J*	Submitted to lab and analyzed outside of holding time.
BM-11-15	Soil	TA - Irvine	IPL1994	IPL1994-03	GENCHEM	pH	J*	Submitted to lab and analyzed outside of holding time.
BM-11-20	Soil	TA - Irvine	IPL1994	IPL1994-04	GENCHEM	pH	J*	Submitted to lab and analyzed outside of holding time.
BM-11-25	Soil	TA - Irvine	IPL1994	IPL1994-05	GENCHEM	pH	J*	Submitted to lab and analyzed outside of holding time.
BM-11-30	Soil	TA - Irvine	IPL1994	IPL1994-06	GENCHEM	pH	J*	Submitted to lab and analyzed outside of holding time.
DUP-7	Soil	TA - Irvine	IPL1994	IPL1994-08	GENCHEM	pH	J*	Submitted to lab and analyzed outside of holding time.
BM-11-50	Soil	TA - Irvine	IPL1994	IPL1994-09	GENCHEM	pH	J*	Submitted to lab and analyzed outside of holding time.
BM-11-100	Soil	TA - Irvine	IPL1994	IPL1994-10	GENCHEM	pH	J*	Submitted to lab and analyzed outside of holding time.
BM-11-150	Soil	TA - Irvine	IPL1994	IPL1994-11	GENCHEM	pH	J*	Submitted to lab and analyzed outside of holding time.
MW-4A-5	Soil	TA - Irvine	IQA0181	IQA0181-01	INORG	Perchlorate	UJ*	Elevated MS/MSD RPD. Sample non-detect, estimated reporting limit.
MW-4A-50	Soil	TA - Irvine	IQA0181	IQA0181-02	INORG	Perchlorate	UJ*	Elevated MS/MSD RPD. Sample non-detect, estimated reporting limit.
MW-4A-100	Soil	TA - Irvine	IQA0181	IQA0181-03	INORG	Perchlorate	UJ*	Elevated MS/MSD RPD. Sample non-detect, estimated reporting limit.
MW-4A-150	Soil	TA - Irvine	IQA0306	IQA0306-01	INORG	Perchlorate	UJ*	Elevated MS/MSD RPD. Sample non-detect, estimated reporting limit.
MW-4A-200	Soil	TA - Irvine	IQA0306	IQA0306-02	INORG	Perchlorate	UJ*	Elevated MS/MSD RPD. Sample non-detect, estimated reporting limit.
BM-3-200	Soil	TA-Irvine	IQC0500	IQC0500-01	METAL METAL	Antimony Zinc	UJ* J*	Low MS/MSD RECs. Sample non-detect, estimated reporting limit. Low MSD REC. Sample has detect.

**Table 1
Data Qualifiers
Former Weber Aircraft**

Sample Name	Sample Matrix	Lab	Data Package	Laboratory Number	Analysis	Target Analyte	Qualifier Added	Reason for Qualification
Data Packages: Data Review Qualifiers Needed								
BM-12-35	Soil	TA-Irvine	IQC0500	IQC0500-02	METAL METAL	Antimony Zinc	UJ* J*	Low MS/MSD RECs. Sample non-detect, estimated reporting limit. Low MSD REC. Sample has detect.
BM-12-50	Soil	TA-Irvine	IQC0500	IQC0500-03	METAL METAL	Antimony Zinc	UJ* J*	Low MS/MSD RECs. Sample non-detect, estimated reporting limit. Low MSD REC. Sample has detect.
BM-12-150	Soil	TA-Irvine	IQC0500	IQC0500-04	METAL METAL	Antimony Zinc	UJ* J*	Low MS/MSD RECs. Sample non-detect, estimated reporting limit. Low MSD REC. Sample has detect.
BM-12-200	Soil	TA-Irvine	IQC0500	IQC0500-05	METAL METAL	Antimony Zinc	UJ* J*	Low MS/MSD RECs. Sample non-detect, estimated reporting limit. Low MSD REC. Sample has detect.
BM-2-200	Soil	TA-Irvine	IQC0500	IQC0500-06	METAL METAL	Antimony Zinc	UJ* J*	Low MS/MSD RECs. Sample non-detect, estimated reporting limit. Low MSD REC. Sample has detect.
BM-2-150	Soil	TA-Irvine	IQC0500	IQC0500-07	METAL METAL	Antimony Zinc	UJ* J*	Low MS/MSD RECs. Sample non-detect, estimated reporting limit. Low MSD REC. Sample has detect.
BM-10-100	Soil	TA-Irvine	IQC0500	IQC0500-08	METAL METAL	Antimony Zinc	UJ* J*	Low MS/MSD RECs. Sample non-detect, estimated reporting limit. Low MSD REC. Sample has detect.
BM-10-200	Soil	TA-Irvine	IQC0500	IQC0500-09	METAL METAL	Antimony Zinc	UJ* J*	Low MS/MSD RECs. Sample non-detect, estimated reporting limit. Low MSD REC. Sample has detect.
BM-11-30	Soil	TA-Irvine	IQC0500	IQC0500-10	METAL METAL	Antimony Zinc	UJ* J*	Low MS/MSD RECs. Sample non-detect, estimated reporting limit. Low MSD REC. Sample has detect.
BM-11-35	Soil	TA-Irvine	IQC0500	IQC0500-11	METAL METAL	Antimony Zinc	UJ* J*	Low MS/MSD RECs. Sample non-detect, estimated reporting limit. Low MSD REC. Sample has detect.
BM-11-50	Soil	TA-Irvine	IQC0500	IQC0500-12	METAL METAL	Antimony Zinc	UJ* J*	Low MS/MSD RECs. Sample non-detect, estimated reporting limit. Low MSD REC. Sample has detect.
BM-11-100	Soil	TA-Irvine	IQC0500	IQC0500-13	METAL METAL	Antimony Zinc	UJ* J*	Low MS/MSD RECs. Sample non-detect, estimated reporting limit. Low MSD REC. Sample has detect.

**Table 1
Data Qualifiers
Former Weber Aircraft**

Sample Name	Sample Matrix	Lab	Data Package	Laboratory Number	Analysis	Target Analyte	Qualifier Added	Reason for Qualification
Data Packages - Data Review Qualifiers Needed								
BM-11-150	Soil	TA-Irvine	IQC0500	IQC0500-14	METAL METAL	Antimony Zinc	UJ* J*	Low MS/MSD RECs. Sample non-detect, estimated reporting limit. Low MSD REC. Sample has detect.
BM-11-200	Soil	TA-Irvine	IQC0500	IQC0500-15	METAL METAL	Antimony Zinc	UJ* J*	Low MS/MSD RECs. Sample non-detect, estimated reporting limit. Low MSD REC. Sample has detect.

J* = Qualified as estimated during QC data review.

UJ* = Qualified as estimated during QC data review. Sample was non-detect, so qualification represents an estimated reporting limit.

GENCHEM = General Chemistry

INORG = Inorganic

MS = Matrix Spike

MSD = Matrix Spike Duplicate

REC = Percent Recovery

RPD = Relative Percent Difference

SVOC = Semivolatile Organic Compound

VOC = Volatile Organic Compound

TA - Irvine = Test America of Irvine, California

Frontier = Frontier Analytical of El Dorado Hills, California

Table 2
Field Duplicate Results - BM-1-150 and DUP-3
Former Weber Aircraft

Sample Name		BM-1-150	DUP-3	Meets Criteria? (Yes/No)
Date Sampled		11/19/2006	11/19/2006	
Laboratory Number		IPK2260-10	IPK2260-11	
Parameter	Units			
Organic Analysis				
1,2,3-Trichloropropane	µg/kg	0.0091 UJ*	0.0084 UJ*	Yes

J* = Qualified as estimated during the data review.

U = Parameter was not detected. Value is the reporting limit.

µg/kg = micrograms per kilogram

Table 3
Field Duplicate Results - BM-5-5 and DUP-A
Former Weber Aircraft

Sample Name Date Sampled Laboratory Number		BM-5-5 11/27/2006 IPK2822-02	DUP-A 11/27/2006 IPK2822-03	Meets Criteria? (Yes/No)
Parameter	Units			
Metals				
Antimony	mg/kg	10 U	10 U	Yes
Arsenic	mg/kg	2 U	2 U	Yes
Barium	mg/kg	39	41	Yes
Beryllium	mg/kg	0.5 U	0.5 U	Yes
Cadmium	mg/kg	0.5 U	0.5 U	Yes
Chromium	mg/kg	4.4	8.5	No (ST)
Cobalt	mg/kg	2.4	4.5	No (ST)
Copper	mg/kg	11	9.6	Yes
Lead	mg/kg	2 U	2 U	Yes
Mercury	mg/kg	0.021	0.023	Yes
Molybdenum	mg/kg	2 U	2 U	Yes
Nickel	mg/kg	2.5	3.4	Yes
Selenium	mg/kg	2 U	2 U	Yes
Silver	mg/kg	1 U	1 U	Yes
Thallium	mg/kg	10 U	10 U	Yes
Vanadium	mg/kg	17	34	No (RPD=67%)
Zinc	mg/kg	17	17	Yes
Inorganics				
Chromium, Hexavalent	mg/kg	0.2 U	0.2 U	Yes
Cyanide	mg/kg	0.5 U	0.5 U	Yes
pH	SU	6.95	7.18	Yes

Bold = Parameter was detected.

U = Parameter was not detected. Value is the reporting limit.

mg/kg = milligrams per kilogram

RL = Reporting Limit

RPD = Relative Percent for Soil (criteria: $RPD \leq 35\%$)

ST = Sensitivity Test for Soil (criteria: difference between results < 2X RL)

SU = Standard Units

Table 4
Field Duplicate Results - BM-15-20 and BM-15-20-DUP4
Former Weber Aircraft

Sample Name Date Sampled Laboratory Number		BM-15-20 11/30/2006 IPK3279-04	BM-15-20-DUP4 11/30/2006 IPK3279-05	Meets Criteria? (Yes/No)
Parameter	Units			
Metals				
Antimony	mg/kg	10 U	10 U	Yes
Arsenic	mg/kg	2 U	2 U	Yes
Barium	mg/kg	44	36	Yes
Beryllium	mg/kg	0.5 U	0.5 U	Yes
Cadmium	mg/kg	0.5 U	0.5 U	Yes
Chromium	mg/kg	3.4	4.4	Yes
Cobalt	mg/kg	2.7	2.9	Yes
Copper	mg/kg	6.1	8.0	Yes
Lead	mg/kg	2.2	2.3	Yes
Mercury	mg/kg	0.02 U	0.024	Yes
Molybdenum	mg/kg	2 U	2 U	Yes
Nickel	mg/kg	2.0	2.0	Yes
Selenium	mg/kg	2 U	2 U	Yes
Silver	mg/kg	1 U	1 U	Yes
Thallium	mg/kg	10 U	10 U	Yes
Vanadium	mg/kg	13	13	Yes
Zinc	mg/kg	14	15	Yes
Inorganics				
Chromium, Hexavalent	mg/kg	0.2 U	0.2 U	Yes

Bold = Parameter was detected.

U = Parameter was not detected. Value is the reporting limit.

mg/kg = milligrams per kilogram

Table 5
Field Duplicate Results - BM-9-20 and DUP-B
Former Weber Aircraft

Sample Name Date Sampled Laboratory Number		BM-9-20 12/1/2006 IPL0116-04	DUP-B 12/1/2006 IPL0116-05	Meets Criteria? (Yes/No)
Parameter	Units			
Organic Analysis				
1,2,3-Trichloropropane	µg/kg	0.045	0.010 U	No (RF)
Metals				
Antimony	mg/kg	10 U	10 U	Yes
Arsenic	mg/kg	2 U	2 U	Yes
Barium	mg/kg	35	39	Yes
Beryllium	mg/kg	0.5 U	0.5 U	Yes
Cadmium	mg/kg	0.5 U	0.5 U	Yes
Chromium	mg/kg	3.2	4.1	Yes
Cobalt	mg/kg	2.1	2.8	Yes
Copper	mg/kg	8.7	11.0	Yes
Lead	mg/kg	2 U	2 U	Yes
Mercury	mg/kg	0.044	0.025	Yes
Molybdenum	mg/kg	2 U	2 U	Yes
Nickel	mg/kg	2.3	2.9	Yes
Selenium	mg/kg	2 U	2 U	Yes
Silver	mg/kg	1 U	1 U	Yes
Thallium	mg/kg	10 U	10 U	Yes
Vanadium	mg/kg	9.9	14	Yes
Zinc	mg/kg	17	18	Yes
Inorganics				
Chromium, Hexavalent	mg/kg	0.2 U	0.2 U	Yes
Cyanide	mg/kg	0.5 U	0.5 U	Yes
pH	SU	8.76	8.57	Yes

Bold = Parameter was detected.

U = Parameter was not detected. Value is the reporting limit.

mg/kg = milligrams per kilogram

RF = Replication Failure (criteria: detected result > 2X RL nondetect result)

RL = Reporting Limit

SU = Standard Units

Table 6
Field Duplicate Results - BM-8-115 and DUP-C
Former Weber Aircraft

Sample Name		BM-8-115	DUP-C	Meets Criteria? (Yes/No)
Date Sampled		12/4/2006	12/4/2006	
Laboratory Number		IPL0257-10	IPL0257-11	
Parameter	Units			
Metals				
Mercury	mg/kg	0.02 U	0.023	Yes
Inorganics				
Chromium, Hexavalent	mg/kg	0.44	8.0	No (ST)
pH	SU	7.56	7.46	Yes

Bold = Parameter was detected.

U = Parameter was not detected. Value is the reporting limit.

mg/kg = milligrams per kilogram

RL = Reporting Limit

ST = Sensitivity Test for Soil (criteria: difference between results < 2X RL)

SU = Standard Units

Table 7
Field Duplicate Results - BM-3-35 and DUP-D
Former Weber Aircraft

Sample Name		BM-3-35	DUP-D	Meets Criteria? (Yes/No)
Date Sampled		12/11/2006	12/11/2006	
Laboratory Number		IPL1316-07	IPL1316-09	
Parameter	Units			
Metals				
Mercury	mg/kg	0.02 U	0.020	Yes /
Inorganics				
Chromium, Hexavalent	mg/kg	0.2 U	0.2 U	Yes
pH	SU	8.79 J*	8.60 J*	Yes

Bold = Parameter was detected.

J* = Qualified as estimated during the data review.

U = Parameter was not detected. Value is the reporting limit.

mg/kg = milligrams per kilogram

SU = Standard Units

Table 8
Field Duplicate Results - BM-16-30 and DUP-6
Former Weber Aircraft

Sample Name		BM-16-30	DUP-6	Meets Criteria? (Yes/No)
Date Sampled		12/12/2006	12/12/2006	
Laboratory Number		IPL1335-03	IPL1335-04	
Parameter	Units			
Inorganics				
Perchlorate	mg/kg	0.04 U	0.04 U	Yes

Bold = Parameter was detected.

U = Parameter was not detected. Value is the reporting limit.

mg/kg = milligrams per kilogram

Table 9
Field Duplicate Results - BM-11-35 and DUP-7
Former Weber Aircraft

Sample Name Date Sampled Laboratory Number		BM-11-35 12/17/2006 IPL1994-07 IQC0500-11		DUP-7 12/17/2006 IPL1994-08		Meets Criteria? (Yes/No)
Parameter	Units					
Metals						
Antimony	mg/kg	10	UJ*	10	U	Yes
Arsenic	mg/kg	3.8		2	U	Yes
Barium	mg/kg	82		48		No (RPD=52%)
Beryllium	mg/kg	0.5	U	0.5	U	Yes
Cadmium	mg/kg	0.5	U	0.5	U	Yes
Chromium	mg/kg	12		5.3		No (RPD=78%)
Cobalt	mg/kg	5.1		3.0		No (RPD=52%)
Copper	mg/kg	11		7.1		No (RPD=43%)
Lead	mg/kg	2	U	2	U	Yes
Mercury	mg/kg	0.023		0.024		Yes
Molybdenum	mg/kg	2	U	2	U	Yes
Nickel	mg/kg	6.4		3.9		Yes
Selenium	mg/kg	2	U	2	U	Yes
Silver	mg/kg	1	U	1	U	Yes
Thallium	mg/kg	10	U	10	U	Yes
Vanadium	mg/kg	25		17		No (RPD=38%)
Zinc	mg/kg	30	J*	18		No (RPD=50%)
Inorganics						
Chromium, Hexavalent	mg/kg	0.2	U	0.2	U	Yes

Bold = Parameter was detected.

J* = Qualified as estimated during the data review.

U = Parameter was not detected. Value is the reporting limit.

mg/kg = milligrams per kilogram

RPD = Relative Percent for Soil (criteria: RPD ≤ 35%)



Date: March 30, 2007

To: Gary Messerotes

From: Sharon Shelton

Re: QA/QC Review of Analytical Data – Dioxin/Furan Analysis
Soil Samples – Weber Deep Drilling Investigation
Burns & McDonnell Project Number 40641 (Former Weber Aircraft)

Soil samples were collected during the Weber Deep Drilling Investigation from November 2006 through January 2007 from borings associated with the Former Weber Aircraft facility. Select soil samples were submitted to Frontier Analytical Laboratory of El Dorado Hills, California for analysis of tetra- through octa-chlorinated dibenzo dioxins and furans as follows:

Analysis	Method
Soil Samples	
Dioxins and Furans	DLM02.0

The following data sets were reviewed in support of this investigation:

Test America Data Set	Frontier Analytical Data Set	Date Samples Collected	Samples
IPK1660	4174	11/14/2006	BM-14-5, BM-14-15, BM-14-25, & BM-14-50
IPK1835	4175	11/14/2006 11/15/2006	BM-14-100 BM-14-150
IPK2004	4197	11/16/2006	BM-14-200 & DUP-2
IPL1338	4238	12/12/2006	BM-16-5, BM-16-25, BM-16-50
IPL1517	4242	12/13/2006	BM-16-100
IPL1641	4244	12/13/2006 12/14/2006	BM-16-150 BM-16-200
IQA0224	4263	1/3/2007	MW-4A-5, MW-4A-25, MW-4A-50, DUP-E, & MW-4A-100
IQA0309	4265	1/4/2007	MW-4A-150 & MW-4A-200
Note: Test America subcontracted Frontier Analytical. Therefore each dioxin/furan data set has both a Test America ID and a Frontier Analytical ID.			

The quality assurance/quality control (QA/QC) results in association with the samples were evaluated for achievement of any method-specific QA/QC criteria. Data qualifiers, when appropriate, were assigned according to the guidelines presented in *USEPA National Functional Guidelines for Chlorinated Dibenzo-p-Dioxins and Chlorinated Dibenzofurans Data Review*, 2005. The QA/QC review results are discussed below. Table 1 presents a summary of data qualifiers assigned during the course of the QA/QC data review.

1. Chain-of-Custody – The chain-of-custody (COC) forms were signed by the relinquisher and the receiver.
2. Requested Analyses Completed – All samples were analyzed as requested on the COC.



3. Holding Times – Sample preparation and analyses were performed within the appropriate holding times.
4. Sample Preservation – No problems were noted with sample preservation.
5. Laboratory Method Blanks – Method blanks were reviewed to determine the potential for sample cross contamination due to laboratory handling. Target compounds were not detected in the method blanks, and cross-contamination was not an issue.
6. Cleanup Surrogate – A ^{37}Cl -labeled cleanup surrogate is used to monitor the efficiency of extract cleanup procedures. It is added to the sample extracts after extraction and prior to any cleanup steps. Low recoveries of the cleanup surrogate suggest that losses may be due to performance of the cleanup procedures. Cleanup surrogate recoveries were within QC limits.
7. Internal Standards – Fifteen (15) labeled chlorinated-p-dioxin/chlorinated dibenzofurans (CDDs/CDFs) serve as the isotopic dilution quantitative mechanism for Method DLM02.0. The recovery of these internal standards is a critical measure of the effectiveness of the laboratory and method to extract the compounds of interest. All internal standard recoveries were within QC limits.
8. Laboratory Control Sample (LCS) – The LCS contains a matrix similar to that of the sample that has been spiked with known concentrations of target analytes. The LCS is prepared and analyzed by the same method as the samples. As a measure of analytical accuracy, the results of the LCS are compared against the known analyte concentrations in the spike to determine REC. The purpose of the LCS is to determine the performance of the laboratory with respect to analyte recovery, independent of field sample matrix interference. LCS recoveries were within QC limits.
9. Field Duplicate Results – Tables 2 and 3 provide a summary of the field duplicate results. The following field duplicate samples were collected:
 - BM-14-200 and DUP-2 (Table 2): Dioxins/Furans were not detected in the primary sample or duplicate. All results were adequate replicated.
 - MW-4A-25 and DUP-E (Table 3): Dioxins/Furans were not detected in primary sample MW-4A-25. However, some dioxins/furans were detected in duplicate sample DUP-E at concentrations below the calibration range. The results for the impacted dioxin/furan parameters in both samples were qualified as estimated (J*) to indicate potential problems with analytical precision. (Note: Results already qualified by Frontier as estimated (J) due to results below the calibration range were not additionally qualified J*.)
10. Detection and Quantitation Limits – No samples required dilution, and reporting limits were not elevated.



Memorandum
March 30, 2007
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11. Conclusion – No data were qualified unusable (R) as a result of the QA/QC data review. Table 1 presents a summary of data that were qualified as estimated (UJ* or J*). The data should be used as qualified in reporting the results of this investigation.

Attachments

Table 1 – Data Qualifiers

Table 2 – Field Duplicate Results BM-14-200 and DUP-2

Table 3 – Field Duplicate Results MW-4A-25 and DUP-E

**Table 1
Data Qualifiers
Former Weber Aircraft**

Sample Name	Sample Matrix	Lab	Data Package	Laboratory Number	Analysis	Target Analyte	Qualifier Added	Reason for Qualification
Data Packages - No Data Review Qualifiers Needed								
		TA-Irvine / Frontier	IPK1660 / 4174				None	No data qualifiers for this package.
		TA-Irvine / Frontier	IPK1835 / 4175				None	No data qualifiers for this package.
		TA-Irvine / Frontier	IPK2004 / 4197				None	No data qualifiers for this package.
		TA-Irvine / Frontier	IPL1338 / 4238				None	No data qualifiers for this package.
		TA-Irvine / Frontier	IPL1517 / 4242				None	No data qualifiers for this package.
		TA-Irvine / Frontier	IPL1641 / 4244				None	No data qualifiers for this package.
		TA-Irvine / Frontier	IQA0309 / 4265				None	No data qualifiers for this package.
Data Packages - Data Review Qualifiers Needed								
MW-4A-25	Soil	TA - Irvine/Frontier	IQA0224	IQA0224-02	DIOXIN	1,2,3,4,6,7,8-HpCDD	UJ*	Poor replication with field duplicate Dup-E.
						OCDD	UJ*	Poor replication with field duplicate Dup-E.
						Total HpCDD	UJ*	Poor replication with field duplicate Dup-E.
						1,2,3,4,6,7,8-HpCDF	UJ*	Poor replication with field duplicate Dup-E.
						OCDF	UJ*	Poor replication with field duplicate Dup-E.
						Total TCDF	UJ*	Poor replication with field duplicate Dup-E.
						Total PeCDF	UJ*	Poor replication with field duplicate Dup-E.
						Total HxCDF	UJ*	Poor replication with field duplicate Dup-E.
						Total HpCDF	UJ*	Poor replication with field duplicate Dup-E.
DUP-E	Soil	TA - Irvine/Frontier	IQA0224	IQA0224-04	DIOXIN	1,2,3,4,6,7,8-HpCDD	None	J-qualified by lab. Poor replication with field duplicate Dup-E.
						OCDD	J*	Poor replication with field duplicate Dup-E.
						Total HpCDD	J*	Poor replication with field duplicate Dup-E.
						1,2,3,4,6,7,8-HpCDF	None	J-qualified by lab. Poor replication with field duplicate Dup-E.
						OCDF	None	J-qualified by lab. Poor replication with field duplicate Dup-E.
						Total TCDF	None	J-qualified by lab. Poor replication with field duplicate Dup-E.
						Total PeCDF	None	J-qualified by lab. Poor replication with field duplicate Dup-E.
						Total HxCDF	None	J-qualified by lab. Poor replication with field duplicate Dup-E.
						Total HpCDF	None	J-qualified by lab. Poor replication with field duplicate Dup-E.

J* = Qualified as estimated during QC data review.

UJ* = Qualified as estimated during QC data review. Sample was non-detect, so qualification represents an estimated reporting limit.

TA - Irvine = Test America of Irvine, California

Frontier = Frontier Analytical of El Dorado Hills, California

Table 2
Field Duplicate Results - BM-14-200 and DUP-2
Former Weber Aircraft

Sample Name		BM-14-200	DUP-2	Meets Criteria? (Yes/No)
Date Sampled		11/16/2006	11/16/2006	
Laboratory Number		IPK2004-01 / 4197-001	IPK2004-02 / 4197-002	
Parameter	Units			
Dioxin / Furan				
Dioxins/Furans	pg/g	Not Detected	Not Detected	Yes

pg/g = picograms per gram

Table 3
Field Duplicate Results - MW-4A-25 and DUP-E
Former Weber Aircraft

Sample Name Date Sampled Laboratory Number		MW-4A-25 1/3/2007 IQA2004-02 / 4263-002	DUP-E 1/3/2007 IQA2004-04 / 4263-004	Meets Criteria? (Yes/No)
Parameter	Units			
Dioxin / Furan				
1,2,3,4,6,7,8-HpCDD	pg/g	0.167 UJ*	1.81 J	No
OCDD	pg/g	0.315 UJ*	14.9 J*	No
Total HpCDD	pg/g	0.167 UJ*	3.64 J*	No
1,2,3,4,6,7,8-HpCDF	pg/g	0.0578 UJ*	0.734 J	No
OCDF	pg/g	0.329 UJ*	1.92 J	No
Total TCDF	pg/g	0.0878 UJ*	0.138 J	No
Total PeCDF	pg/g	0.131 UJ*	0.795 J	No
Total HxCDF	pg/g	0.0613 UJ*	1.23 J	No
Total HpCDF	pg/g	0.0603 UJ*	2.26 J	No
Other Dioxins/Furans	pg/g	Not Detected	Not Detected	Yes

Bold = Parameter was detected.

J = Analyte concentration below calibration range.

J* = Qualified as estimated during the data review.

pg/g = picograms per gram

Table 2
Data Qualifiers
Former Weber Aircraft

Sample Name	Sample Matrix	Lab	Data Package	Laboratory Number	Analysis	Target Analyte	Qualifier Added	Reason for Qualification
Data Packages - No Data Review Qualifiers Needed								
		TA - Irvine	IPK1479				None	No data qualifiers for this package.
		TA - Irvine	IPK1657				None	No data qualifiers for this package.
		TA-Irvine / Frontier	IPK1660 / 4174				None	No data qualifiers for this package.
		TA - Irvine	IPK1834				None	No data qualifiers for this package.
		TA-Irvine / Frontier	IPK1835 / 4175				None	No data qualifiers for this package.
		TA - Irvine	IPK2372				None	No data qualifiers for this package.
		TA-Irvine / Frontier	IPK2004 / 4197				None	No data qualifiers for this package.
		TA - Irvine	IPK2494				None	No data qualifiers for this package.
		TA - Irvine	IPK2822				None	No data qualifiers for this package.
		TA - Irvine	IPK2969				None	No data qualifiers for this package.
		TA - Irvine	IPK3279				None	No data qualifiers for this package.
		TA - Irvine	IPL0116				None	No data qualifiers for this package.
		TA - Irvine	IPL0179				None	No data qualifiers for this package.
		TA - Irvine	IPL0374				None	No data qualifiers for this package.
		TA - Irvine	IPL1335				None	No data qualifiers for this package.
		TA-Irvine / Frontier	IPL1338 / 4238				None	No data qualifiers for this package.
		TA-Irvine / Frontier	IPL1517 / 4242				None	No data qualifiers for this package.
		TA - Irvine	IPL1518				None	No data qualifiers for this package.
		TA - Irvine	IPL1638				None	No data qualifiers for this package.
		TA-Irvine / Frontier	IPL1641 / 4244				None	No data qualifiers for this package.
		TA - Irvine	IPL1922				None	No data qualifiers for this package.
		TA-Irvine / Frontier	IQA0309 / 4265				None	No data qualifiers for this package.
Data Packages - Data Review Qualifiers Needed								
BM-1-15	Soil	TA - Irvine	IPK2260	IPK2260-03	VOC SVOC	1,2,3-Trichloropropane 1,4-Dioxane	UJ* UJ*	Received by lab at 10°C. Sample non-detect, estimated reporting limit. Received by lab at 10°C. Sample non-detect, estimated reporting limit.
BM-1-30	Soil	TA - Irvine	IPK2260	IPK2260-06	VOC SVOC	1,2,3-Trichloropropane 1,4-Dioxane	UJ* UJ*	Received by lab at 10°C. Sample non-detect, estimated reporting limit. Received by lab at 10°C. Sample non-detect, estimated reporting limit.
BM-1-50	Soil	TA - Irvine	IPK2260	IPK2260-08	VOC SVOC	1,2,3-Trichloropropane 1,4-Dioxane	UJ* UJ*	Received by lab at 10°C. Sample non-detect, estimated reporting limit. Received by lab at 10°C. Sample non-detect, estimated reporting limit.
BM-1-100	Soil	TA - Irvine	IPK2260	IPK2260-09	VOC SVOC	1,2,3-Trichloropropane 1,4-Dioxane	UJ* UJ*	Received by lab at 10°C. Sample non-detect, estimated reporting limit. Received by lab at 10°C. Sample non-detect, estimated reporting limit.
BM-1-150	Soil	TA - Irvine	IPK2260	IPK2260-10	VOC SVOC	1,2,3-Trichloropropane 1,4-Dioxane	UJ* UJ*	Received by lab at 10°C. Sample non-detect, estimated reporting limit. Received by lab at 10°C. Sample non-detect, estimated reporting limit.

**Table 2
Data Qualifiers
Former Weber Aircraft**

Sample Name	Sample Matrix	Lab	Data Package	Laboratory Number	Analysis	Target Analyte	Qualifier Added	Reason for Qualification
DUP-3	Soil	TA - Irvine	IPK2260	IPK2260-11	VOC	1,2,3-Trichloropropane	UJ*	Received by lab at 10°C. Sample non-detect, estimated reporting limit.
BM-5-150	Soil	TA - Irvine	IPK3105	IPK3105-01	GENCHEM	pH	J*	Submitted to lab and analyzed outside of holding time.
BM-15-150	Soil	TA - Irvine	IPL0119	IPL0119-03	SVOC	1,4-Dioxane	UJ*	Low MSD REC and elevated RPD. Sample non-detect.
BM-9-200	Soil	TA - Irvine	IPL0257	IPL0257-12	GENCHEM	pH	J*	Submitted to lab and analyzed outside of holding time.
BM-7-5	Soil	TA - Irvine	IPL0258	IPL0258-01	METAL	Antimony	UJ*	Low MS/MSD RECs. Sample non-detect, estimated reporting limit.
BM-7-10	Soil	TA - Irvine	IPL0258	IPL0258-02	METAL	Antimony	UJ*	Low MS/MSD RECs. Sample non-detect, estimated reporting limit.
BM-7-15	Soil	TA - Irvine	IPL0258	IPL0258-03	METAL	Antimony	UJ*	Low MS/MSD RECs. Sample non-detect, estimated reporting limit.
BM-7-20	Soil	TA - Irvine	IPL0258	IPL0258-04	METAL	Antimony	UJ*	Low MS/MSD RECs. Sample non-detect, estimated reporting limit.
BM-7-25	Soil	TA - Irvine	IPL0258	IPL0258-05	METAL	Antimony	UJ*	Low MS/MSD RECs. Sample non-detect, estimated reporting limit.
BM-3-5	Soil	TA - Irvine	IPL1316	IPL1316-01	GENCHEM	pH	J*	Submitted to lab and analyzed outside of holding time.
BM-3-10	Soil	TA - Irvine	IPL1316	IPL1316-02	GENCHEM	pH	J*	Submitted to lab and analyzed outside of holding time.
BM-3-15	Soil	TA - Irvine	IPL1316	IPL1316-03	GENCHEM	pH	J*	Submitted to lab and analyzed outside of holding time.
BM-3-30	Soil	TA - Irvine	IPL1316	IPL1316-06	GENCHEM	pH	J*	Submitted to lab and analyzed outside of holding time.
BM-3-35	Soil	TA - Irvine	IPL1316	IPL1316-07	GENCHEM	pH	J*	Submitted to lab and analyzed outside of holding time.
BM-3-50	Soil	TA - Irvine	IPL1316	IPL1316-08	GENCHEM	pH	J*	Submitted to lab and analyzed outside of holding time.
DUP-D	Soil	TA - Irvine	IPL1316	IPL1316-09	GENCHEM	pH	J*	Submitted to lab and analyzed outside of holding time.
BM-3-200	Soil	TA - Irvine	IPL1484	IPL1484-01	GENCHEM	pH	J*	Analyzed outside of holding time.
BM-12-7	Soil	TA - Irvine	IPL1617	IPL1617-01	METAL	Antimony	UJ*	Low MS/MSD RECs. Sample non-detect, estimated reporting limit.
					METAL	Barium	J*	Low MSD REC. Sample has detect.
BM-12-10	Soil	TA - Irvine	IPL1617	IPL1617-02	METAL	Antimony	UJ*	Low MS/MSD RECs. Sample non-detect, estimated reporting limit.
					METAL	Barium	J*	Low MSD REC. Sample has detect.

**Table 2
Data Qualifiers
Former Weber Aircraft**

Sample Name	Sample Matrix	Lab	Data Package	Laboratory Number	Analysis	Target Analyte	Qualifier Added	Reason for Qualification
Data Packages Data Review Qualifiers Needed								
BM-12-15	Soil	TA - Irvine	IPL1617	IPL1617-03	METAL METAL	Antimony Barium	UJ* J*	Low MS/MSD RECs. Sample non-detect, estimated reporting limit. Low MSD REC. Sample has detect.
BM-12-20	Soil	TA - Irvine	IPL1617	IPL1617-04	METAL METAL	Antimony Barium	UJ* J*	Low MS/MSD RECs. Sample non-detect, estimated reporting limit. Low MSD REC. Sample has detect.
BM-12-25	Soil	TA - Irvine	IPL1617	IPL1617-05	METAL METAL	Antimony Barium	UJ* J*	Low MS/MSD RECs. Sample non-detect, estimated reporting limit. Low MSD REC. Sample has detect.
BM-12-35	Soil	TA - Irvine	IPL1617	IPL1617-07	GENCHEM	pH	J*	Analyzed outside of holding time.
BM-12-50	Soil	TA - Irvine	IPL1848	IPL1848-01	GENCHEM	pH	J*	Analyzed outside of holding time.
BM-2-5	Soil	TA - Irvine	IPL1849	IPL1849-01	METAL	Antimony	UJ*	Low MS/MSD RECs. Sample non-detect, estimated reporting limit.
BM-2-10	Soil	TA - Irvine	IPL1849	IPL1849-02	METAL	Antimony	UJ*	Low MS/MSD RECs. Sample non-detect, estimated reporting limit.
BM-2-15	Soil	TA - Irvine	IPL1849	IPL1849-03	METAL	Antimony	UJ*	Low MS/MSD RECs. Sample non-detect, estimated reporting limit.
BM-2-20	Soil	TA - Irvine	IPL1849	IPL1849-04	METAL	Antimony	UJ*	Low MS/MSD RECs. Sample non-detect, estimated reporting limit.
BM-2-25	Soil	TA - Irvine	IPL1849	IPL1849-05	METAL	Antimony	UJ*	Low MS/MSD RECs. Sample non-detect, estimated reporting limit.
BM-10-5	Soil	TA - Irvine	IPL1993	IPL1993-01	GENCHEM	pH	J*	Submitted to lab and analyzed outside of holding time.
BM-10-10	Soil	TA - Irvine	IPL1993	IPL1993-02	GENCHEM	pH	J*	Submitted to lab and analyzed outside of holding time.
BM-10-15	Soil	TA - Irvine	IPL1993	IPL1993-03	GENCHEM	pH	J*	Submitted to lab and analyzed outside of holding time.
BM-10-20	Soil	TA - Irvine	IPL1993	IPL1993-04	GENCHEM	pH	J*	Submitted to lab and analyzed outside of holding time.
BM-10-25	Soil	TA - Irvine	IPL1993	IPL1993-05	GENCHEM	pH	J*	Submitted to lab and analyzed outside of holding time.
BM-10-30	Soil	TA - Irvine	IPL1993	IPL1993-06	GENCHEM	pH	J*	Submitted to lab and analyzed outside of holding time.
BM-10-35	Soil	TA - Irvine	IPL1993	IPL1993-07	GENCHEM	pH	J*	Submitted to lab and analyzed outside of holding time.
BM-10-50	Soil	TA - Irvine	IPL1993	IPL1993-08	GENCHEM	pH	J*	Submitted to lab and analyzed outside of holding time.

**Table 2
Data Qualifiers
Former Weber Aircraft**

Sample Name	Sample Matrix	Lab	Data Package	Laboratory Number	Analysis	Target Analyte	Qualifier Added	Reason for Qualification
Data Packages Data Review Qualifiers Needed								
BM-10-100	Soil	TA - Irvine	IPL1993	IPL1993-09	GENCHEM	pH	J*	Submitted to lab and analyzed outside of holding time.
BM-10-150	Soil	TA - Irvine	IPL1993	IPL1993-10	GENCHEM VOC	pH 1,2,3-Trichloropropane	J* UJ*	Submitted to lab and analyzed outside of holding time. Low surrogate REC. Sample non-detect, estimated reporting limit.
BM-11-5	Soil	TA - Irvine	IPL1994	IPL1994-01	GENCHEM	pH	J*	Submitted to lab and analyzed outside of holding time.
BM-11-10	Soil	TA - Irvine	IPL1994	IPL1994-02	GENCHEM	pH	J*	Submitted to lab and analyzed outside of holding time.
BM-11-15	Soil	TA - Irvine	IPL1994	IPL1994-03	GENCHEM	pH	J*	Submitted to lab and analyzed outside of holding time.
BM-11-20	Soil	TA - Irvine	IPL1994	IPL1994-04	GENCHEM	pH	J*	Submitted to lab and analyzed outside of holding time.
BM-11-25	Soil	TA - Irvine	IPL1994	IPL1994-05	GENCHEM	pH	J*	Submitted to lab and analyzed outside of holding time.
BM-11-30	Soil	TA - Irvine	IPL1994	IPL1994-06	GENCHEM	pH	J*	Submitted to lab and analyzed outside of holding time.
DUP-7	Soil	TA - Irvine	IPL1994	IPL1994-08	GENCHEM	pH	J*	Submitted to lab and analyzed outside of holding time.
BM-11-50	Soil	TA - Irvine	IPL1994	IPL1994-09	GENCHEM	pH	J*	Submitted to lab and analyzed outside of holding time.
BM-11-100	Soil	TA - Irvine	IPL1994	IPL1994-10	GENCHEM	pH	J*	Submitted to lab and analyzed outside of holding time.
BM-11-150	Soil	TA - Irvine	IPL1994	IPL1994-11	GENCHEM	pH	J*	Submitted to lab and analyzed outside of holding time.
MW-4A-5	Soil	TA - Irvine	IQA0181	IQA0181-01	INORG	Perchlorate	UJ*	Elevated MS/MSD RPD. Sample non-detect, estimated reporting limit.
MW-4A-50	Soil	TA - Irvine	IQA0181	IQA0181-02	INORG	Perchlorate	UJ*	Elevated MS/MSD RPD. Sample non-detect, estimated reporting limit.
MW-4A-100	Soil	TA - Irvine	IQA0181	IQA0181-03	INORG	Perchlorate	UJ*	Elevated MS/MSD RPD. Sample non-detect, estimated reporting limit.

**Table 2
Data Qualifiers
Former Weber Aircraft**

Sample Name	Sample Matrix	Lab	Data Package	Laboratory Number	Analysis	Target Analyte	Qualifier Added	Reason for Qualification
Data Packages - Data Review/Qualifiers Needed								
MW-4A-25	Soil	TA - Irvine/Frontier	IQA0224	IQA0224-02	DIOXIN	1,2,3,4,6,7,8-HpCDD OCDD Total HpCDD 1,2,3,4,6,7,8-HpCDF OCDF Total TCDF Total PeCDF Total HxCDF Total HpCDF	J* J* J* J* J* J* J* J*	Poor replication with field duplicate Dup-E. Poor replication with field duplicate Dup-E. Poor replication with field duplicate Dup-E. Poor replication with field duplicate Dup-E. Poor replication with field duplicate Dup-E. Poor replication with field duplicate Dup-E. Poor replication with field duplicate Dup-E. Poor replication with field duplicate Dup-E. Poor replication with field duplicate Dup-E.
DUP-E	Soil	TA - Irvine/Frontier	IQA0224	IQA0224-04	DIOXIN	1,2,3,4,6,7,8-HpCDD OCDD Total HpCDD 1,2,3,4,6,7,8-HpCDF OCDF Total TCDF Total PeCDF Total HxCDF Total HpCDF	None J* J* None None None None None None	J-qualified by lab. Poor replication with field duplicate Dup-E. Poor replication with field duplicate Dup-E. Poor replication with field duplicate Dup-E. J-qualified by lab. Poor replication with field duplicate Dup-E. J-qualified by lab. Poor replication with field duplicate Dup-E. J-qualified by lab. Poor replication with field duplicate Dup-E. J-qualified by lab. Poor replication with field duplicate Dup-E. J-qualified by lab. Poor replication with field duplicate Dup-E. J-qualified by lab. Poor replication with field duplicate Dup-E.
MW-4A-150	Soil	TA - Irvine	IQA0306	IQA0306-01	INORG	Perchlorate	UJ*	Elevated MS/MSD RPD. Sample non-detect, estimated reporting limit.
MW-4A-200	Soil	TA - Irvine	IQA0306	IQA0306-02	INORG	Perchlorate	UJ*	Elevated MS/MSD RPD. Sample non-detect, estimated reporting limit.
BM-3-200	Soil	TA-Irvine	IQC0500	IQC0500-01	METAL METAL	Antimony Zinc	UJ* J*	Low MS/MSD RECs. Sample non-detect, estimated reporting limit. Low MSD REC. Sample has detect.
BM-12-35	Soil	TA-Irvine	IQC0500	IQC0500-02	METAL METAL	Antimony Zinc	UJ* J*	Low MS/MSD RECs. Sample non-detect, estimated reporting limit. Low MSD REC. Sample has detect.
BM-12-50	Soil	TA-Irvine	IQC0500	IQC0500-03	METAL METAL	Antimony Zinc	UJ* J*	Low MS/MSD RECs. Sample non-detect, estimated reporting limit. Low MSD REC. Sample has detect.
BM-12-150	Soil	TA-Irvine	IQC0500	IQC0500-04	METAL METAL	Antimony Zinc	UJ* J*	Low MS/MSD RECs. Sample non-detect, estimated reporting limit. Low MSD REC. Sample has detect.
BM-12-200	Soil	TA-Irvine	IQC0500	IQC0500-05	METAL METAL	Antimony Zinc	UJ* J*	Low MS/MSD RECs. Sample non-detect, estimated reporting limit. Low MSD REC. Sample has detect.

**Table 2
Data Qualifiers
Former Weber Aircraft**

Sample Name	Sample Matrix	Lab	Data Package	Laboratory Number	Analysis	Target Analyte	Qualifier Added	Reason for Qualification
Data Packages Data Review/Qualifiers Needed								
BM-2-200	Soil	TA-Irvine	IQC0500	IQC0500-06	METAL METAL	Antimony Zinc	UJ* J*	Low MS/MSD RECs. Sample non-detect, estimated reporting limit. Low MSD REC. Sample has detect.
BM-2-150	Soil	TA-Irvine	IQC0500	IQC0500-07	METAL METAL	Antimony Zinc	UJ* J*	Low MS/MSD RECs. Sample non-detect, estimated reporting limit. Low MSD REC. Sample has detect.
BM-10-100	Soil	TA-Irvine	IQC0500	IQC0500-08	METAL METAL	Antimony Zinc	UJ* J*	Low MS/MSD RECs. Sample non-detect, estimated reporting limit. Low MSD REC. Sample has detect.
BM-10-200	Soil	TA-Irvine	IQC0500	IQC0500-09	METAL METAL	Antimony Zinc	UJ* J*	Low MS/MSD RECs. Sample non-detect, estimated reporting limit. Low MSD REC. Sample has detect.
BM-11-30	Soil	TA-Irvine	IQC0500	IQC0500-10	METAL METAL	Antimony Zinc	UJ* J*	Low MS/MSD RECs. Sample non-detect, estimated reporting limit. Low MSD REC. Sample has detect.
BM-11-35	Soil	TA-Irvine	IQC0500	IQC0500-11	METAL METAL	Antimony Zinc	UJ* J*	Low MS/MSD RECs. Sample non-detect, estimated reporting limit. Low MSD REC. Sample has detect.
BM-11-50	Soil	TA-Irvine	IQC0500	IQC0500-12	METAL METAL	Antimony Zinc	UJ* J*	Low MS/MSD RECs. Sample non-detect, estimated reporting limit. Low MSD REC. Sample has detect.
BM-11-100	Soil	TA-Irvine	IQC0500	IQC0500-13	METAL METAL	Antimony Zinc	UJ* J*	Low MS/MSD RECs. Sample non-detect, estimated reporting limit. Low MSD REC. Sample has detect.
BM-11-150	Soil	TA-Irvine	IQC0500	IQC0500-14	METAL METAL	Antimony Zinc	UJ* J*	Low MS/MSD RECs. Sample non-detect, estimated reporting limit. Low MSD REC. Sample has detect.
BM-11-200	Soil	TA-Irvine	IQC0500	IQC0500-15	METAL METAL	Antimony Zinc	UJ* J*	Low MS/MSD RECs. Sample non-detect, estimated reporting limit. Low MSD REC. Sample has detect.

J* = Qualified as estimated during QC data review.

UJ* = Qualified as estimated during QC data review. Sample was non-detect, so qualification represents an estimated reporting limit.

GENCHEM = General Chemistry

INORG = Inorganic

MS = Matrix Spike

MSD = Matrix Spike Duplicate

REC = Percent Recovery

RPD = Relative Percent Difference

SVOC = Semivolatile Organic Compound

VOC = Volatile Organic Compound

TA - Irvine = Test America of Irvine, California

Frontier = Frontier Analytical of El Dorado Hills, California

Table 2
Data Qualifiers
Former Weber Aircraft

Sample Name	Lab	Laboratory Number	Analysis	Target Analyte	Qualifier Added	Reason for Qualification
SVP8-200, P5000cc	H&P Mobile	E701051-07	VOC	1,1-Dichloroethene	J*	Elevated surrogate recovery indicates potential high bias.
				Freon 113	J*	Elevated surrogate recovery indicates potential high bias.
				1,1,1-Trichloroethane	J*	Elevated surrogate recovery indicates potential high bias.
				Trichloroethene	J*	Elevated surrogate recovery indicates potential high bias.
				Tetrachloroethene	J*	Elevated surrogate recovery indicates potential high bias.
SVP9-100, P2500cc	H&P Mobile	E701046-04	VOC	Tetrachloroethene	J*	Elevated RPD for duplicate. Potential precision issue.
SVP9-100DUP, P2500cc	H&P Mobile	E701046-05	VOC	Tetrachloroethene	J*	Elevated RPD for duplicate. Potential precision issue.

J* = Qualified as estimated during QC data review.
VOC = Volatile Organic Compound



Date: March 30, 2007

To: Gary Messerotes

From: Sharon Shelton

Re: QA/QC Review of Analytical Data
Soil Gas Sampling Event (January 17 – 19, 2007)
Burns & McDonnell Project 40641 (Weber)

Soil gas samples were collected during the Weber Deep Drilling Investigation on January 17 through 19, 2007. Samples were analyzed on-site by H&P Mobile Geochemistry for volatile organic compounds (VOCs) using United State Environmental Protection Agency (USEPA) Method SW-846 8260B. The following data set was reviewed in support of this investigation:

Laboratory	Data Set	Matrix	Date Samples Collected
H&P Mobile Geochemistry	BM011706-L4	Soil Gas	01/17/2007 – 01/19/2007

The quality assurance/quality control (QA/QC) results in association with the samples were evaluated for achievement of any method-specific QA/QC criteria. Data qualifiers, when appropriate, were assigned according to the guidelines presented in *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review* (NFGO), 1999. A summary of data qualifiers assigned during the review is presented on Table 1. The QA/QC review results are discussed in the following paragraphs.

1. Chain-of-Custody – The chain-of-custody (COC) forms were signed by the relinquisher and the receiver.
2. Requested Analyses Completed – Sample analyses were performed as requested on the COC.
3. Holding Times – All samples were analyzed within the method holding time.
4. Sample Preservation – No problems were noted with sample preservation.
5. Laboratory Method Blanks – Method blanks were reviewed to determine the potential for sample cross contamination due to laboratory handling. Target compounds were not detected in the laboratory method blanks. Sample cross-contamination was not an issue.
6. Surrogates – Surrogates are added for organic analyses. Surrogates are compounds not normally found in the environment that are added (spiked) into samples and analyzed for percent recovery (REC). Maximum and minimum limits on the REC are set by the laboratory for the method used. Except as noted in the following paragraph, surrogate RECs were within limits:
 - SVP-8-200, P5000cc (Lab ID E701051-07) – REC of surrogate 1,2-dichloroethane-d4 exceeded QC limits, which suggests high bias in the data. The laboratory narrative indicated that reanalysis confirmed the matrix effect. Detections of 1,1-dichloroethene,



Memorandum
March 30, 2007
Page 2

Freon 113, 1,1,1-trichloroethane, trichloroethene, and tetrachloroethene were qualified as estimated (J*) to indicate potential high bias in the results.

7. Field Duplicate Results – Tables 2 through 4 provides a summary of the field duplicate results. The following field duplicate samples were collected:
 - SVP9-100, P2500cc and SVP9-100DUP, P2560cc (Table 2): The relative percent difference (RPD) for tetrachloroethene was 79 percent, which exceed the 35 percent QC maximum. The tetrachloroethene results for SVP9-100, P2500cc (Lab ID E701046-04) and SVP9-100DUP, P2560cc (Lab ID E701046-05) were qualified as estimated (J*) to indicate potential problems with analytical precision.
 - SVP10-150, P3750cc and SVP10-150DUP, P3810cc (Table 3): All results were adequately replicated.
 - SVP11-50, P1250cc and SVP11-50DUP, P1310cc (Table 4): All results were adequately replicated.
8. Detection and Quantitation Limits – Elevated reporting limits were not observed.
9. Conclusion – Table 1 provided a summary of data qualifiers that were assigned to the soil gas data. The data are usable, as qualified, in reporting the results of this investigation.

Attachments

Table 1 – Data Qualifiers

Table 2 – Field Duplicate Results SVP9-100 and SVP9-100DUP

Table 3 – Field Duplicate Results SVP10-150 and SVP10-150DUP

Table 4 – Field Duplicate Results SVP11-50 and SVP11-50DUP

Table 1
Data Qualifiers
Former Weber Aircraft

Sample Name	Lab	Laboratory Number	Analysis	Target Analyte	Qualifier Added	Reason for Qualification
SVP8-200, P5000cc	H&P Mobile	E701051-07	VOC	1,1-Dichloroethene Freon 113 1,1,1-Trichloroethane Trichloroethene Tetrachloroethene	J* J* J* J* J*	Elevated surrogate recovery indicates potential high bias. Elevated surrogate recovery indicates potential high bias. Elevated surrogate recovery indicates potential high bias. Elevated surrogate recovery indicates potential high bias. Elevated surrogate recovery indicates potential high bias.
SVP9-100, P2500cc	H&P Mobile	E701046-04	VOC	Tetrachloroethene	J*	Elevated RPD for duplicate. Potential precision issue.
SVP9-100DUP, P2560cc	H&P Mobile	E701046-05	VOC	Tetrachloroethene	J*	Elevated RPD for duplicate. Potential precision issue.

J* = Qualified as estimated during QC data review.
VOC = Volatile Organic Compound

Table 2
Field Duplicate Results - SVP9-100 and SVP9-100DUP
Former Weber Aircraft

Sample Name Date Sampled Laboratory Number		SVP9-100, P2500cc 1/17/2007 E701046-04	SVP9-100DUP, P2560cc 1/17/2007 E701046-05	Meets Criteria? (Yes/No)
Parameter	Units			
Volatile Organic Compounds				
1,1-Dichloroethene	µg/L	2.7	3.0	Yes
Freon 113	µg/L	2.2	2.3	Yes
Trichloroethene	µg/L	2.5	1.7	Yes
Tetrachloroethene	µg/L	44 J*	19 J*	No (RPD=79%)
Other VOCs	µg/L	Not Detected	Not Detected	Yes

µg/L = micrograms per liter

J* = Qualified as estimated during the data review.

RPD = Relative Percent Difference

Table 3
Field Duplicate Results - SVP10-150 and SVP10-150DUP
Former Weber Aircraft

Sample Name Date Sampled Laboratory Number		SVP10-150, P3750cc 1/18/2007 E701051-11	SVP10-150DUP, P3810cc 1/18/2007 E701051-12	Meets Criteria? (Yes/No)
Parameter	Units			
Volatile Organic Compounds				
1,1-Dichloroethene	µg/L	180	200	Yes
Freon 113	µg/L	73	81	Yes
1,1,1-Trichloroethane	µg/L	13	13	Yes
Trichloroethene	µg/L	27	26	Yes
Tetrachloroethene	µg/L	150	140	Yes
Other VOCs	µg/L	Not Detected	Not Detected	Yes

µg/L = micrograms per liter

Table 4
Field Duplicate Results - SVP11-50 and SVP11-50DUP
Former Weber Aircraft

Sample Name Date Sampled Laboratory Number		SVP11-50, P1250cc 1/19/2007 E701058-06	SVP11-50DUP, P1310cc 1/19/2007 E701058-07	Meets Criteria? (Yes/No)
Parameter	Units			
Volatile Organic Compounds				
Tetrachloroethene	µg/L	14	9.9	Yes
Other VOCs	µg/L	Not Detected	Not Detected	Yes

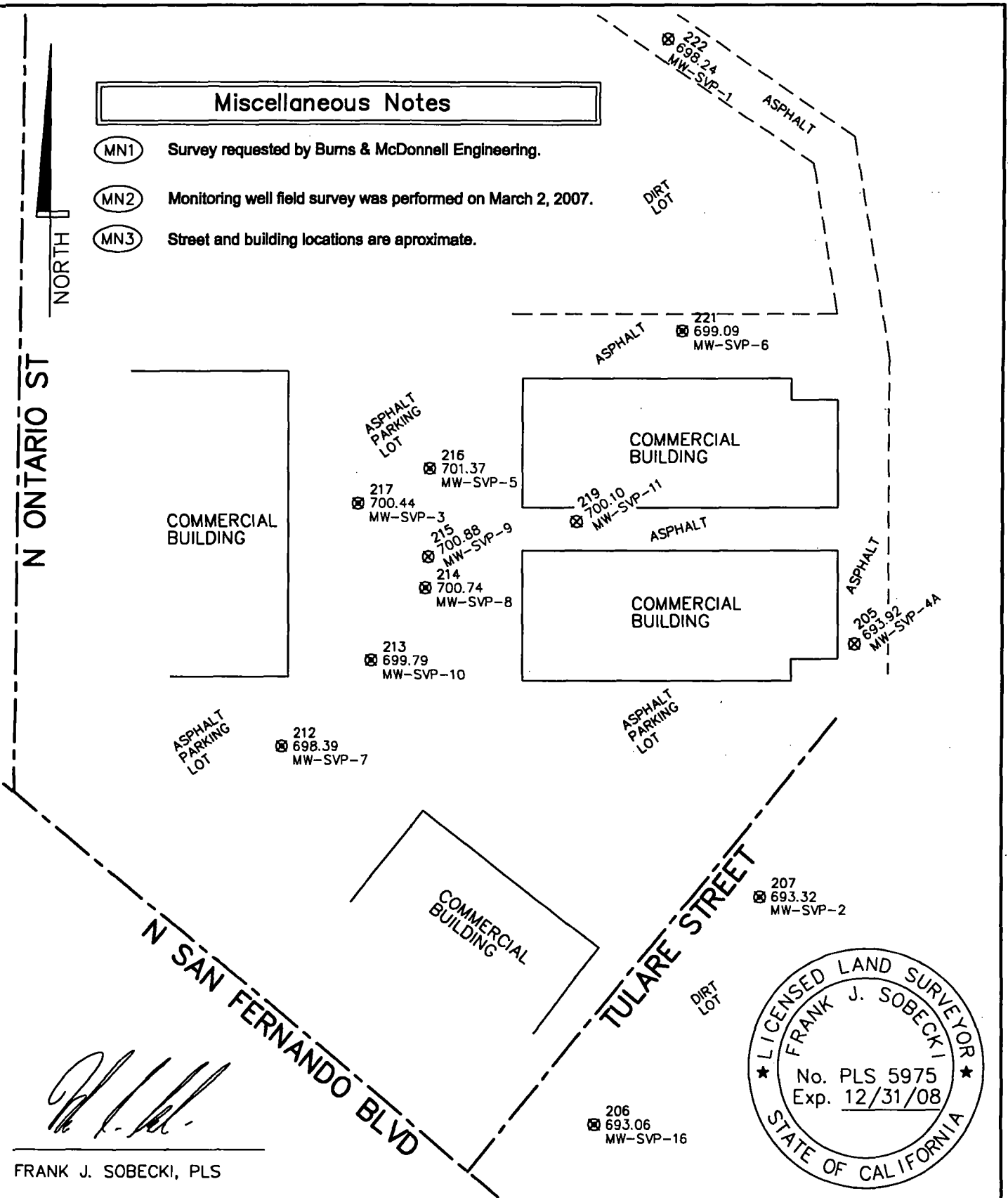
µg/L = micrograms per liter

APPENDIX G

**GROUNDWATER AND SOIL VAPOR MONITORING WELL SURVEY
REPORT**

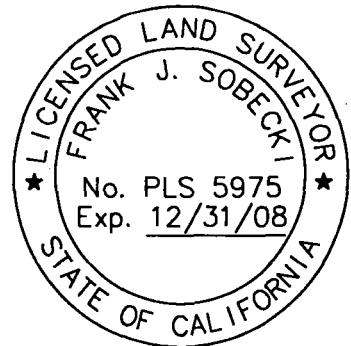
Miscellaneous Notes

- (MN1) Survey requested by Burns & McDonnell Engineering.
- (MN2) Monitoring well field survey was performed on March 2, 2007.
- (MN3) Street and building locations are approximate.



[Signature]

FRANK J. SOBECKI, PLS



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MONITORING WELL SURVEY
2820 N ONTARIO ST.
and
3000 N SAN FERNANDO ROAD
BURBANK, CA

DRAWN BY:	FJS
CHECKED BY:	FJS
DATE:	3/3/2007
SCALE:	1" = 120'
SHT	1 OF 2

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COORDINATE LIST

THE FOLLOWING NORTHING and EASTING COORDINATES AND LATITUDES and LONGITUDES ARE BASED UPON CALIFORNIA STATE PLANE COORDINATE SYSTEM OF 1983, ZONE 5 (CCS83).

THE FOLLOWING ELEVATIONS ARE BASED UPON NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29).

(All values are in feet)

Pt # 205 ELEV 693.92: SVP-4A
PUNCH MARK SET ON SOUTH RIM OF PVC CASING
GRID N: 1896515.77 GRID E: 6458286.17
LATITUDE: 34°12'11.5758" LONGITUDE: 118°20'31.0164"

Pt # 206 ELEV 693.06: SVP-16
LOCATED CENTER/TOP OF STEEL TRIANGLE COVER
GRID N: 1896093.52 GRID E: 6458054.11
LATITUDE: 34°12'07.3910" LONGITUDE: 118°20'33.7622"

Pt # 207 ELEV 693.32: SVP-2
LOCATED CENTER/TOP OF STEEL TRIANGLE COVER
GRID N: 1896294.65 GRID E: 6458201.84
LATITUDE: 34°12'09.3855" LONGITUDE: 118°20'32.0116"

Pt # 212 ELEV 698.39: SVP-7
PUNCH MARK SET ON SOUTH RIM OF PVC CASING
GRID N: 1896425.45 GRID E: 6457775.17
LATITUDE: 34°12'10.6650" LONGITUDE: 118°20'37.0967"

Pt # 213 ELEV 699.79: SVP-10
LOCATED CENTER/TOP OF STEEL TRIANGLE COVER
GRID N: 1896500.96 GRID E: 6457855.05
LATITUDE: 34°12'11.4147" LONGITUDE: 118°20'36.1488"

Pt # 214 ELEV 700.74: SVP-8
LOCATED CENTER/TOP OF STEEL TRIANGLE COVER
GRID N: 1896564.30 GRID E: 6457903.27
LATITUDE: 34°12'12.0430" LONGITUDE: 118°20'35.5772"

Pt # 215 ELEV 700.88: SVP-9
LOCATED CENTER/TOP OF STEEL TRIANGLE COVER
GRID N: 1896591.25 GRID E: 6457906.02
LATITUDE: 34°12'12.3096" LONGITUDE: 118°20'35.5456"

Pt # 216 ELEV 701.37: SVP-5
LOCATED CENTER/TOP OF STEEL TRIANGLE COVER
GRID N: 1896668.23 GRID E: 6457907.29
LATITUDE: 34°12'13.0712" LONGITUDE: 118°20'35.5336"

Pt # 217 ELEV 700.44: SVP-3
LOCATED CENTER/TOP OF STEEL TRIANGLE COVER
GRID N: 1896637.68 GRID E: 6457843.35
LATITUDE: 34°12'12.7668" LONGITUDE: 118°20'36.2937"

Pt # 219 ELEV 700.10: SVP-11
LOCATED CENTER/TOP OF STEEL TRIANGLE COVER
GRID N: 1896621.93 GRID E: 6458038.09
LATITUDE: 34°12'12.6176" LONGITUDE: 118°20'33.9743"

Pt # 221 ELEV 699.09: SVP-6
PUNCH MARK SET ON SOUTH RIM OF PVC CASING
GRID N: 1896789.04 GRID E: 6458131.36
LATITUDE: 34°12'14.2738" LONGITUDE: 118°20'32.8707"

Pt # 222 ELEV 698.24: SVP-1
LOCATED CENTER/TOP OF STEEL TRIANGLE COVER
GRID N: 1897044.71 GRID E: 6458118.08
LATITUDE: 34°12'16.8026" LONGITUDE: 118°20'33.0392"

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AND

MONITORING WELL SURVEY
2820 N ONTARIO ST.
and
3000 N SAN FERNANDO ROAD
BURBANK, CA

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DRAWN BY:	FJS
CHECKED BY:	FJS
DATE:	3/3/2007
SCALE:	n/a
SHT	<u>2</u> OF <u>2</u>

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